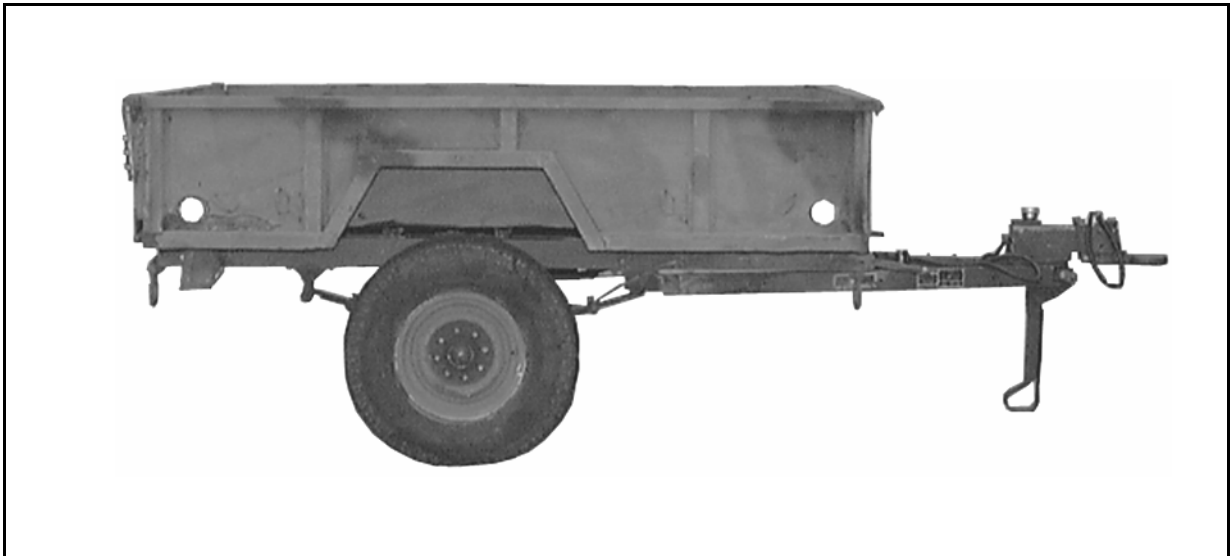


AIRDROP OF SUPPLIES AND EQUIPMENT: RIGGING 3/4-Ton Cargo Trailers



JULY 2003

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**HEADQUARTERS
DEPARTMENT OF THE ARMY
DEPARTMENT OF THE AIR FORCE**

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Technical Order
NO 13C7-3-51

HEADQUARTERS
DEPARTMENTS OF THE ARMY
AND THE AIR FORCE
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Airdrop of Supplies and Equipment Rigging 3/4-Ton Cargo trailers

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*This publication supersedes FM 10-513/TO 13C7-3-51, dated 25 June 1979

Preface

This manual tells and shows how to prepare and rig the M101, M101A1 and M101A2 trailers for low velocity airdrop from a C-130, C-141, C-17 and C-5 aircraft.

User Information

The proponent of this publication is HQ TRADOC. You are encouraged to report any errors or omissions and to suggest ways of making this a better manual. Army personnel, send your comments on DA Form 2028 directly to:

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Introduction

This manual shows the equipment and gives the steps to rig the M101, M101A1 and M101A2 3/4-ton, two-wheeled trailers. The trailers are rigged for low-velocity airdrop from the C-130, C141, C-17 and C-5 aircraft on a type V platform.

CAUTION

Only ammunition listed in FM 10-500-53/MCRP 4-3.81/TO 13C7-18-41 may be airdropped.

RIGGING THE M101, M101A1 OR M101A2, 3/4-TON CARGO TRAILER WITH ACCOMPANYING LOADS

DESCRIPTION OF LOAD

1. The M101, M101A1 or M101A2, 3/4-ton cargo trailer (Figure 1) with accompanying loads is rigged on a 12-foot type V platform for low velocity airdrop. The load shown is rigged with accompanying loads consisting of 22 boxes of 105-millimeter ammunition and weighing 2,440 pounds. The 3/4-ton cargo trailer is rigged with one or two G-11B cargo parachutes depending on the rigged weight. The 3/4-ton cargo trailer may also be rigged with an accompanying load weighing a maximum of 1,500 pounds is stowed in the trailer. Additional accompanying loads may be stowed on the platform as long as the maximum rigged weight does not exceed 8,000 pounds. The unrigged trailer weighs 1,340 pounds. It is 147 inches long and 71 inches wide. The height of the trailer is 82 inches, reducible to 51 inches.

PREPARING PLATFORM

2. Prepare a 12-foot type V platform according to TM 10-1670-268-20&P/TO 13C7-52-22 and as shown in Figure 2.



Figure 1. M101A2, 3/4- Ton Cargo Trailer

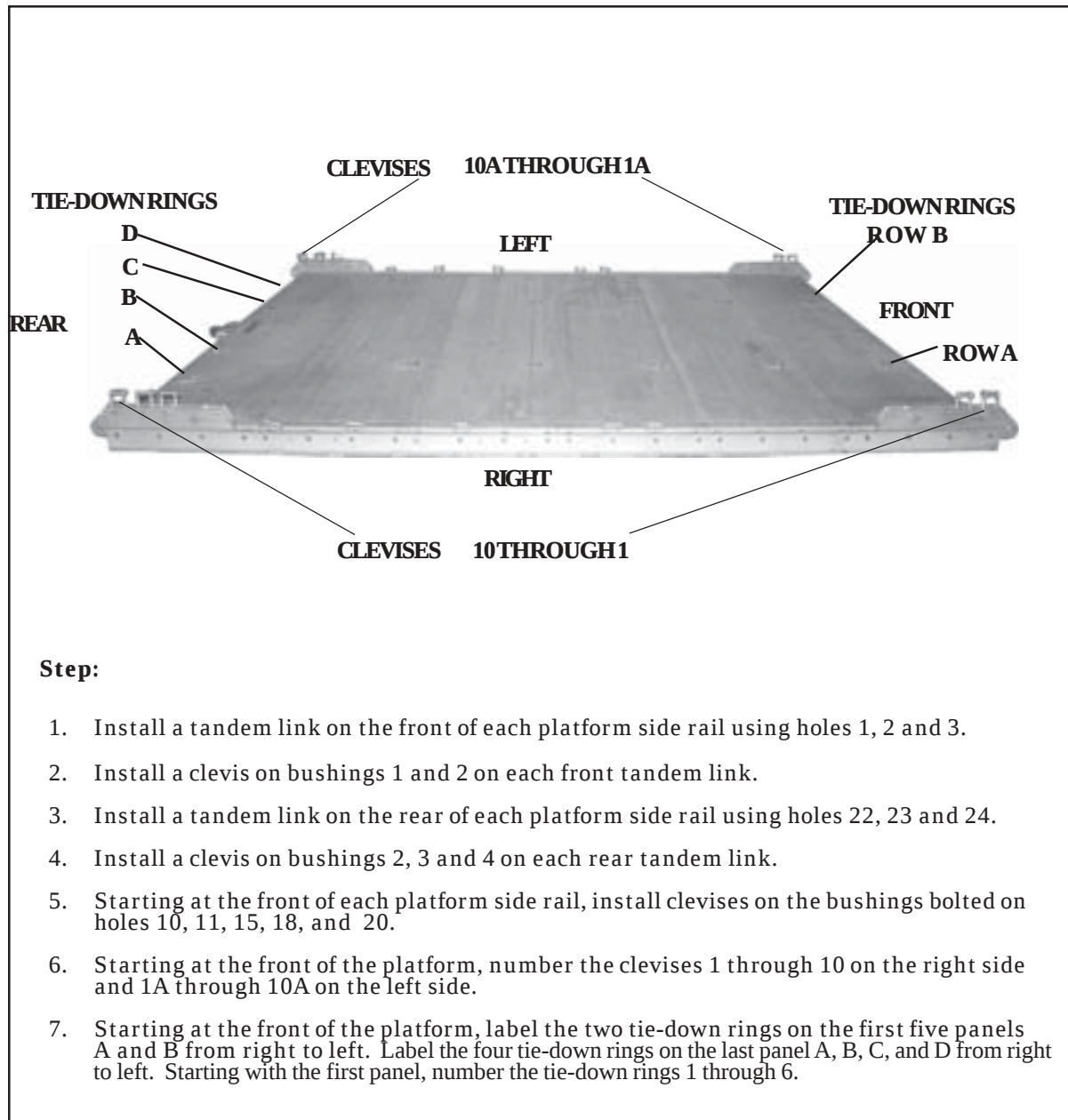


Figure 2. Platform Prepared

POSITIONING AND LASHING ACCOMPANYING LOADS ON PLATFORM

3. Position and lash the accompanying loads on the platform as shown in Figures 3 through 8.

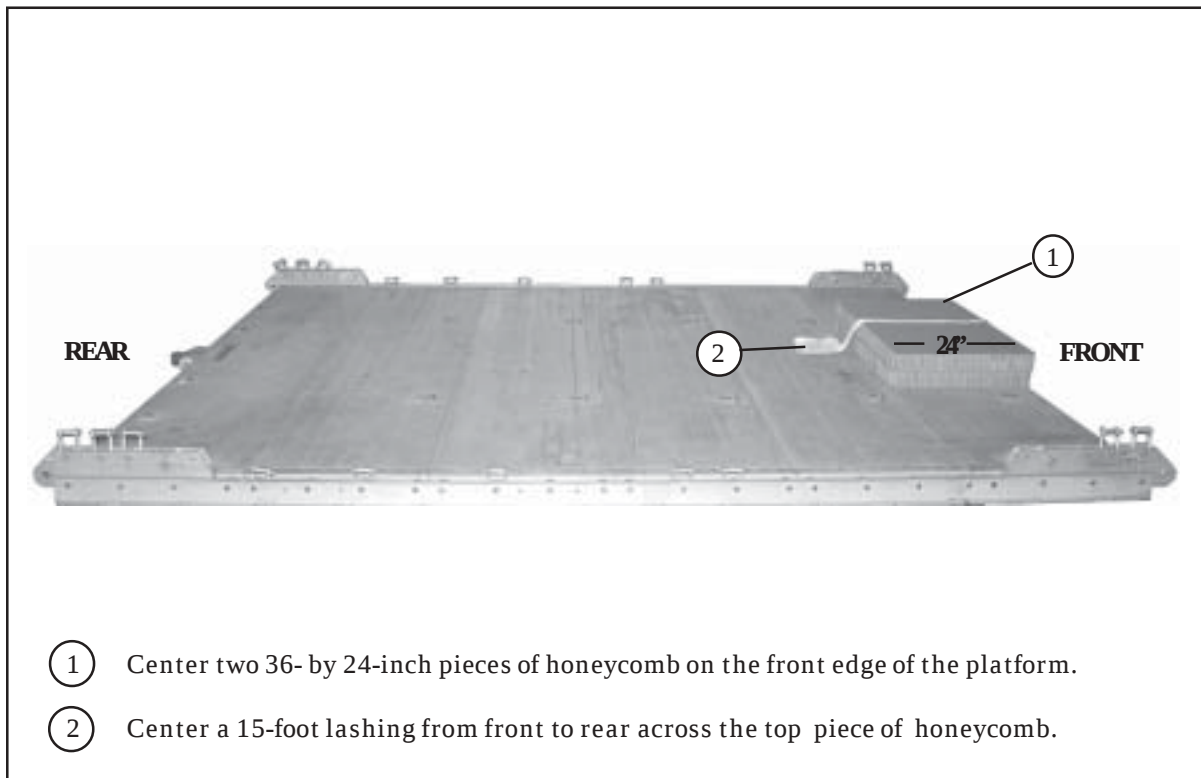
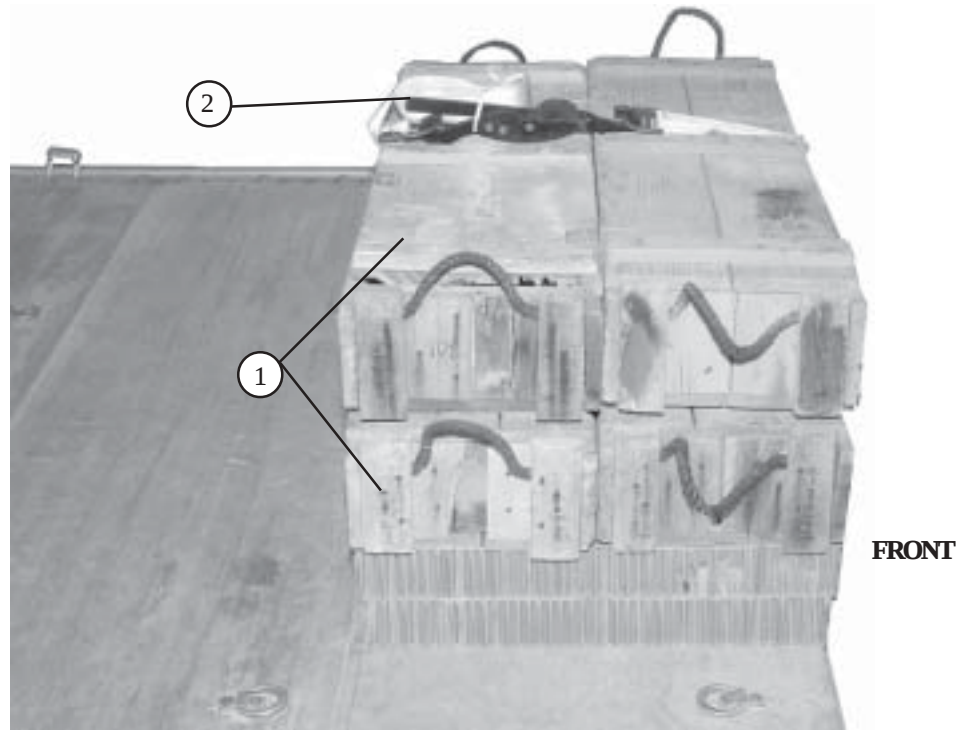
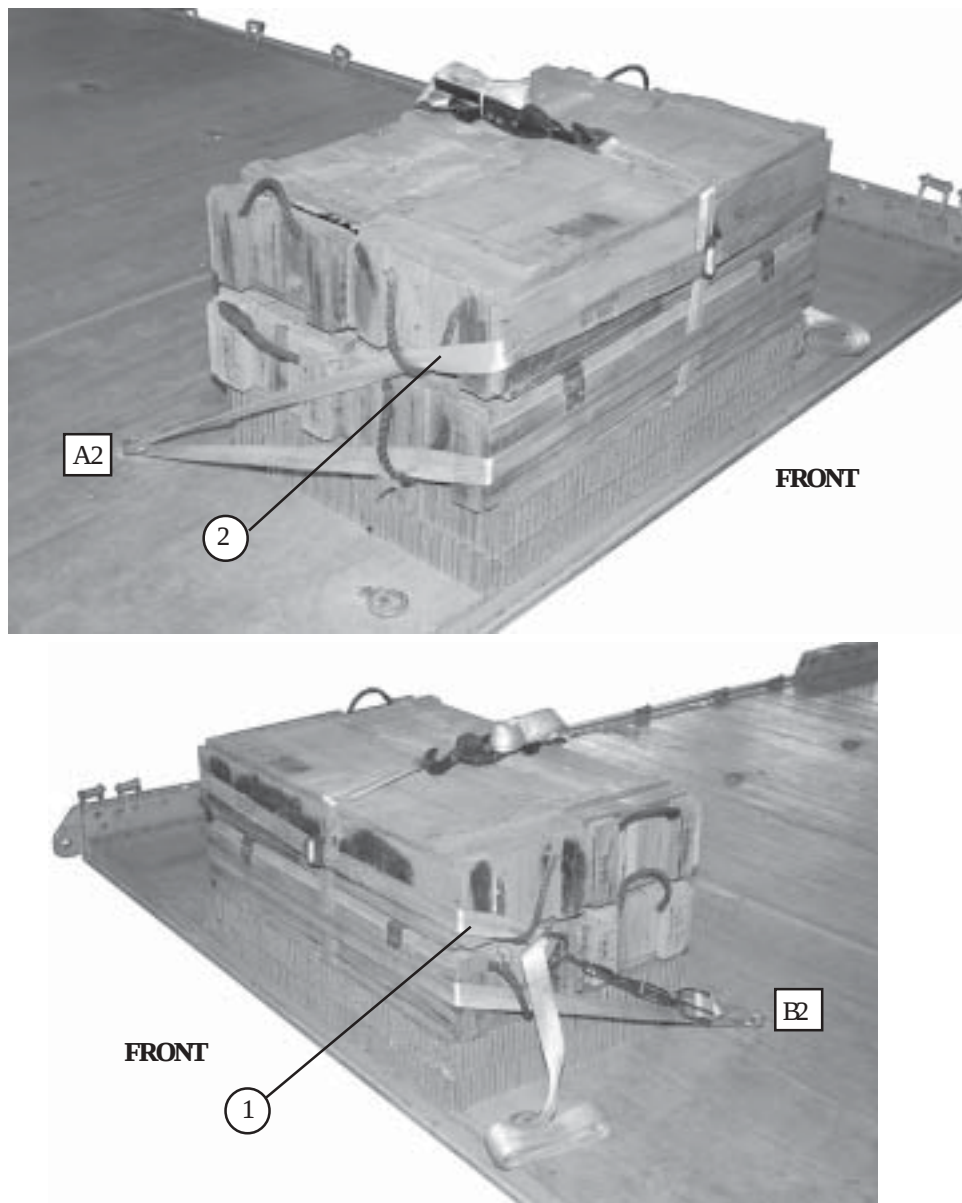


Figure 3. Honeycomb and Lashings Positioned on the Front of the Platform



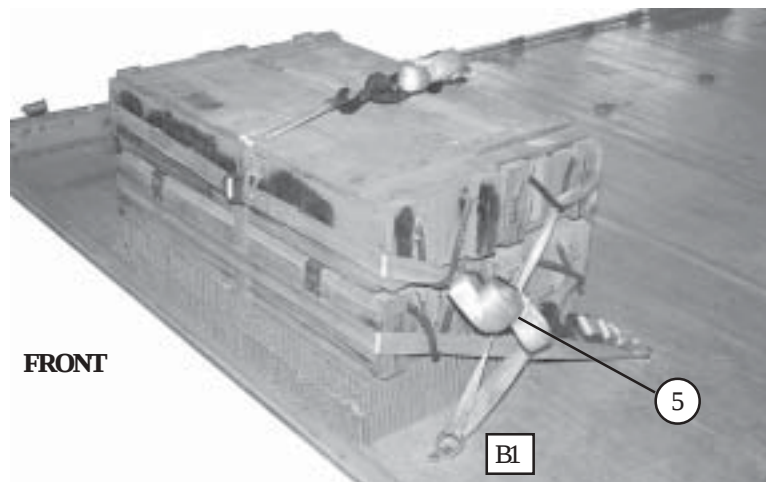
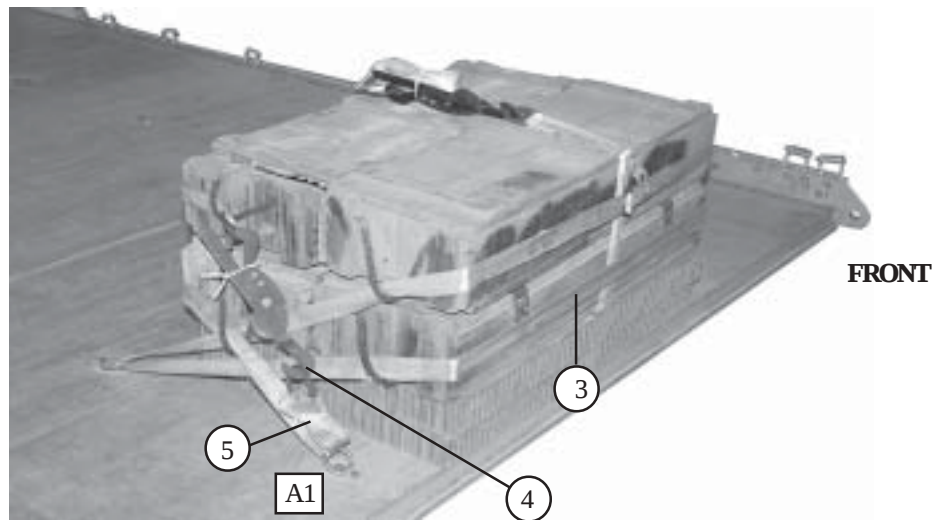
- ① Place four ammunition boxes in two stacks of two each on top of the honeycomb.
- ② Bind the boxes together using the pre-positioned lashing, a D-ring, and a load binder.

Figure 4. Ammunition Boxes Positioned on the Front of the Platform



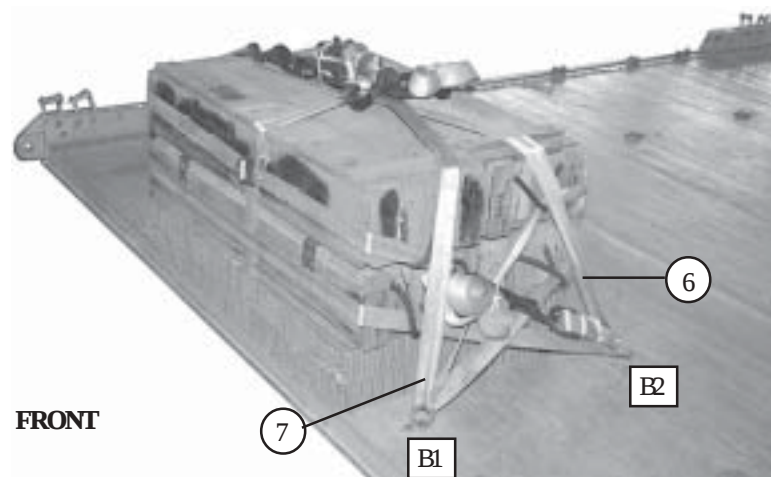
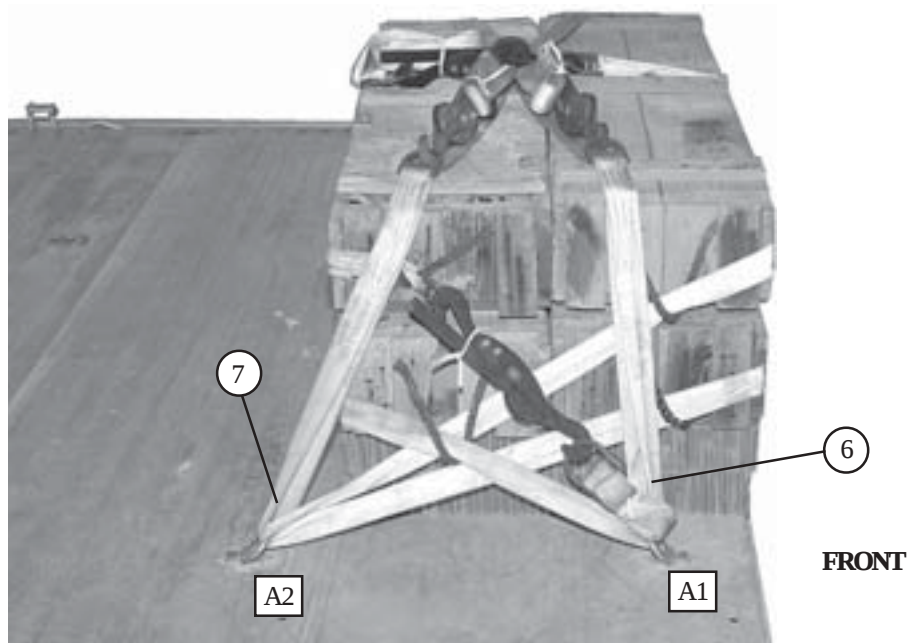
- ① Form a 30-foot lashing according to FM 4-20.102/TO 13C7-1-5. Starting on the front, pass one end through the carrying handle of the top front box on the left side. Attach a D-ring and a load binder to the end. Do not secure the lashing at this time.
- ② Pass the free end of the lashing through the carrying handle of the top front box on the right side, down through tie-down ring A2, and through the carrying handle of the bottom front box on the right side. Continue to pass the lashing around the front of the bottom box, through the carrying handle of the bottom front box on the left side, through tie-down ring B2. Attach D-ring to the lashing and load binder. Do not secure the lashing at this time.

Figure 5. Ammunition Boxes Lashed and Secured on the Front of the Platform



- ③ Starting on the right side, pass a 15-foot lashing through the carrying handle of the top rear box, around the rear of the top box, through the carrying handle of the top rear box on the left side, and through tie-down ring B1. Continue to pass the lashing through the carrying handle of the bottom rear box on the left side, around the bottom of the rear box, through the carrying handle of the bottom rear box on the right side, and through tie-down ring A1.
- ④ Attach a D-ring and a load binder to the end. Do not secure the lashing at this time.
- ⑤ Secure each front and rear load binder simultaneously.

Figure 5. Ammunition Boxes Lashed and Secured on the Front of the Platform (continued)



- ⑥ Pass a 15-foot lashing through tie-down ring A1, across the top of the boxes and through tie-down ring B2. Secure the lashing with a D-ring and a load binder.
- ⑦ Pass another 15-foot lashing through tie-down ring B1, across the top of the boxes, and through tie-down ring A2. Secure the lashing with a D-ring and a load binder.

Figure 5. Ammunition Boxes Lashed and Secured on the Front of the Platform (continued)



Figure 6. Honeycomb and Lashing Positioned on the Rear of the Platform

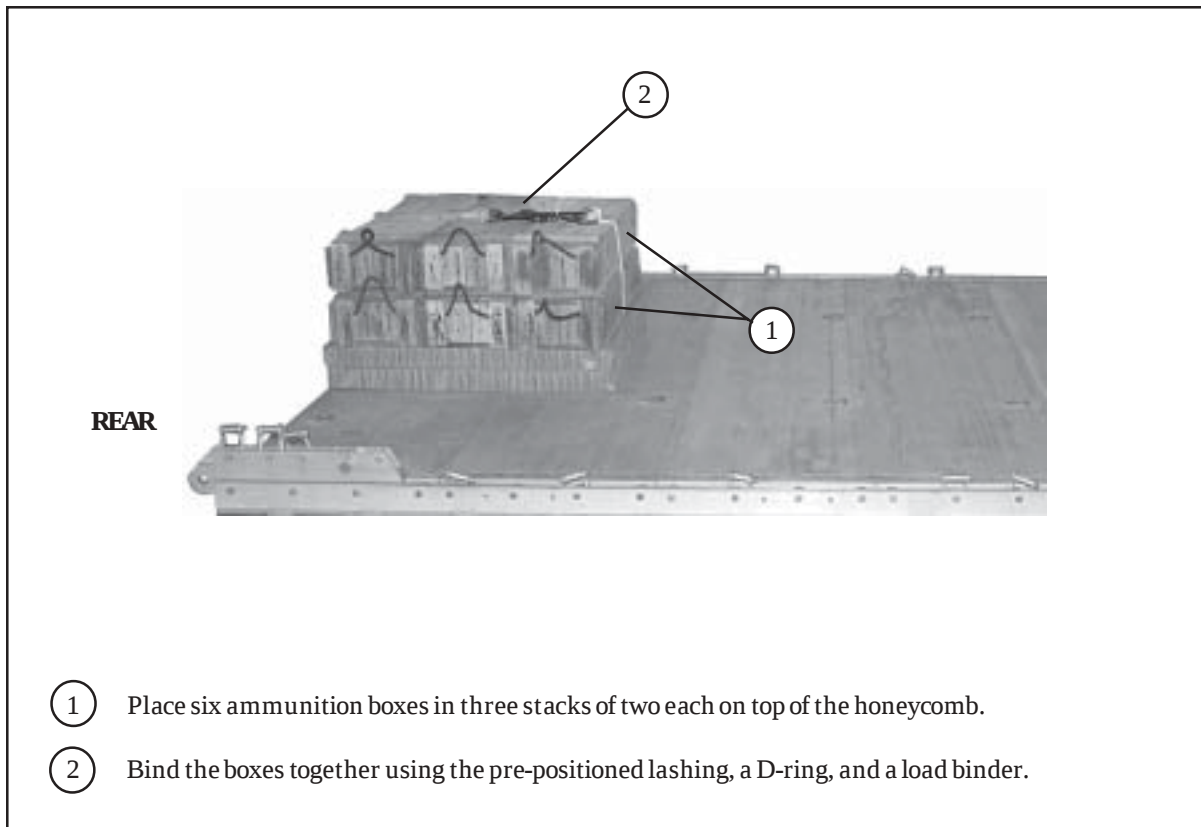


Figure 7. Ammunition Boxes Positioned on the Rear of the Platform

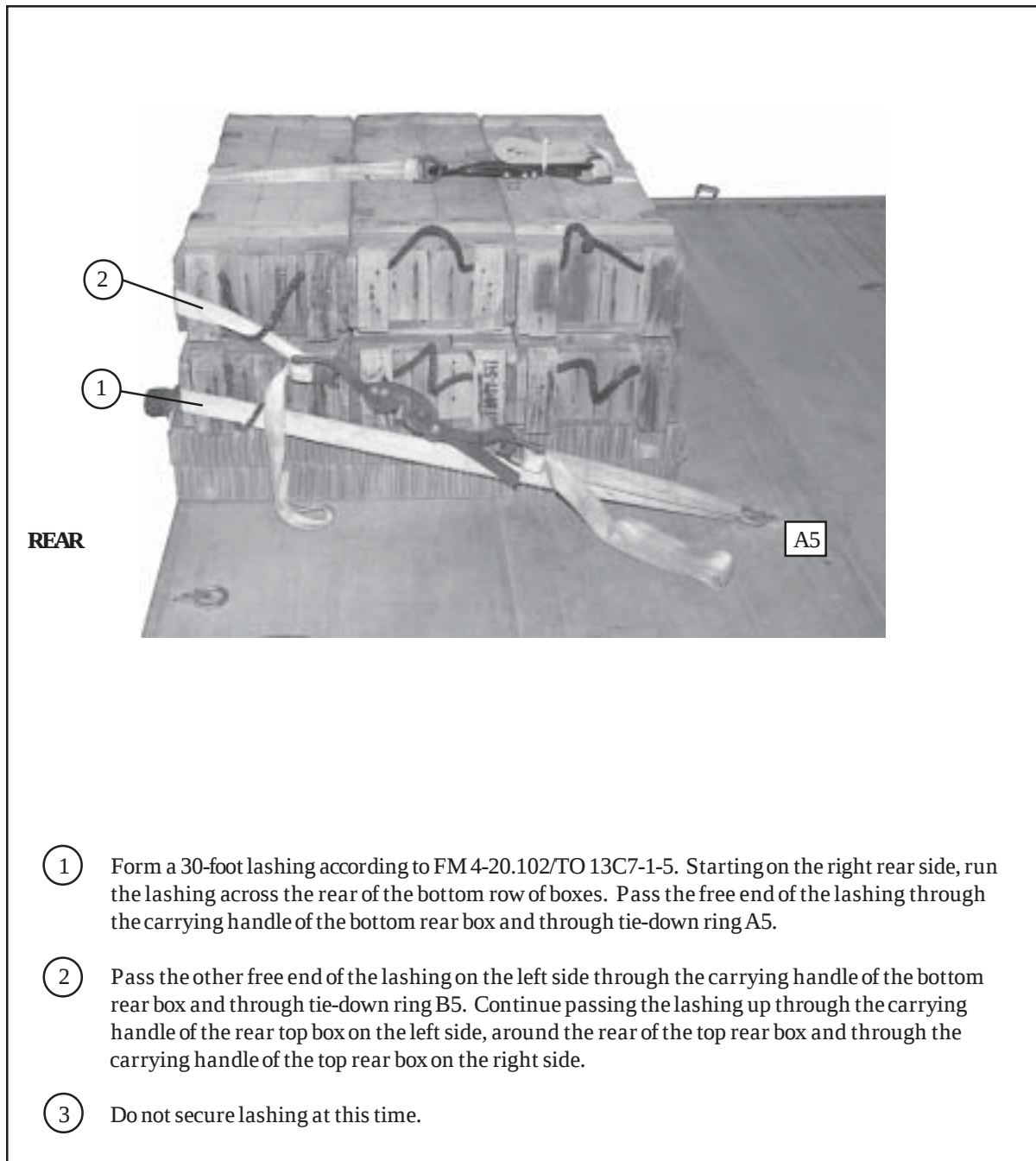
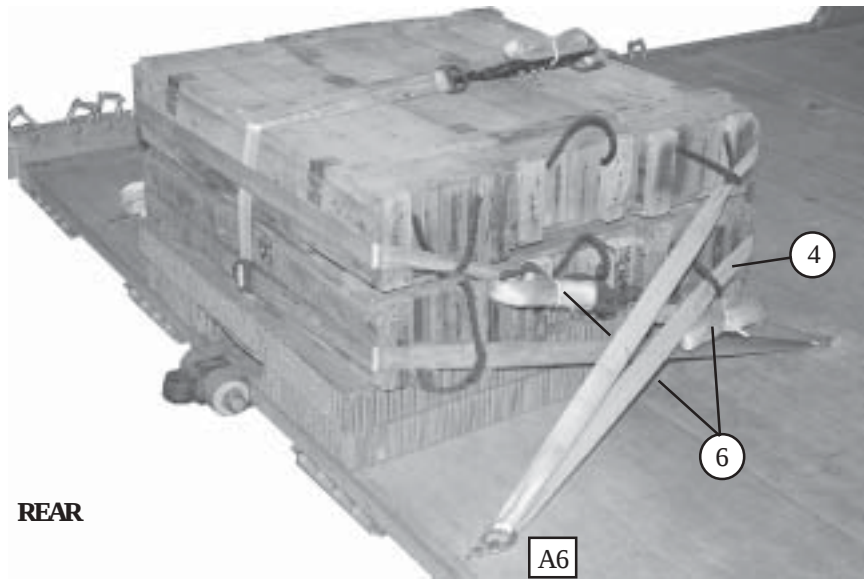
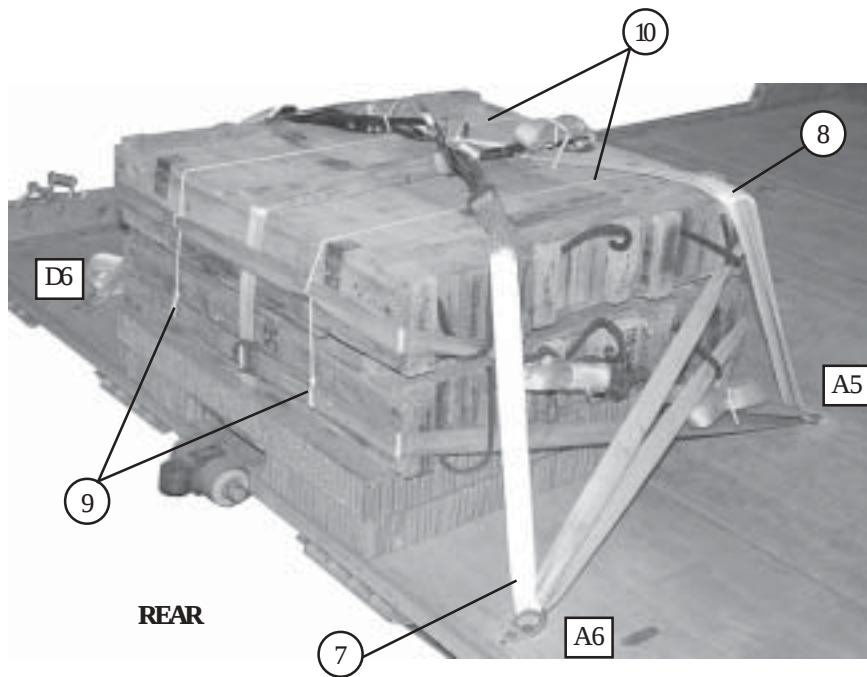


Figure 8. Ammunition Boxes Lashed and Secured on the Rear of the Platform



- ④ Form a 30-foot lashing according to FM 4-20.102/TO 13C7-1-5. Starting on the right front side, run the lashing across the bottom row of boxes. Pass the free end of the lashing through the carrying handle of the bottom front box and through tie-down ring A6. Continue passing the lashing up through the carrying handle of the top front box on the right side, around the front of the top box and through the carrying handle of the top front box on the left side.
- ⑤ Pass the other free end of the lashing around the front of the bottom row of boxes and through the carrying handle of the bottom front box on the left side to tie-down ring D6 (not shown).
- ⑥ Secure each side load binder simultaneously.

Figure 8. Ammunition Boxes Lashed and Secured on the Rear of the Platform (continued)



- ⑦ Pass a 15-foot lashing from tie-down ring A6 across the top of the boxes to tie-down ring B5. Secure the lashing with a D-ring and load binder.
- ⑧ Pass another 15-foot lashing from tie-down ring A5 across the top of the boxes to tie-down ring D6. Secure the lashing with a D-ring and load binder.
- ⑨ Safety tie the lashings in place using two lengths of type III nylon cord. Tie three alternating half hitches around the bottom of the lashing. Pass the cord around the top of the lashing and tie another half hitch.
- ⑩ Pass the free end of the cord over the top of the boxes and form a half hitch around the top of the lashing on the other side. Secure the lashing to the bottom lashing using three alternating half hitches and an overhand knot on the running end.

Figure 1-8. Ammunition Boxes Lashed and Secured on the Rear of the Platform (continued)

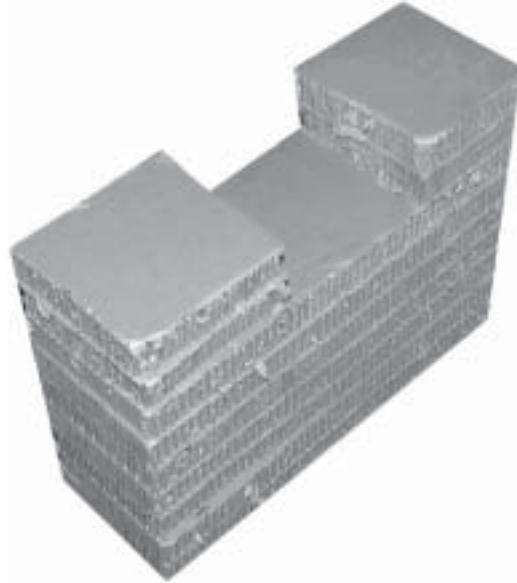
BUILDING AND PLACING HONEYCOMB STACKS

4. Prepare the honeycomb stacks as shown in Figures 9 through 11. Position the honeycomb stack as shown in Figure 12.



Stack Number	Pieces	Width (inches)	Length (inches)	Material	Instructions
1	12	36	12	Honeycomb	Glue to form base.

Figure 9. Stack 1 Prepared



Stack Number	Pieces	Width (inches)	Length (inches)	Material	Instructions
2	7	36	12	Honeycomb	Glue to form base.
	4	12	12	Honeycomb	Stack and glue two pieces of honeycomb flush over each side of the base

Figure 10. Stack 2 Prepared

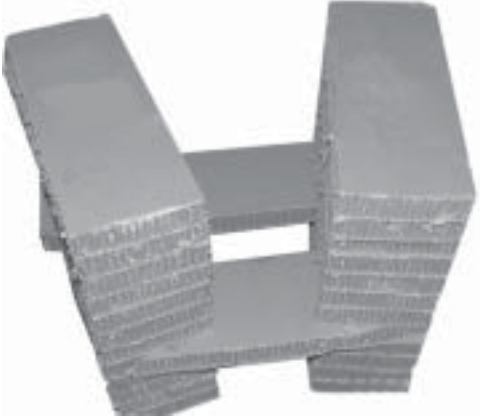
FRONT  REAR					
Stack Number	Pieces	Width (inches)	Length (inches)	Material	Instructions
3	8	12	32	Honeycomb	Form two base stacks of four layers each in a "V" shape. Cut a 10- by 6-inch cutout on the front outside of the bottom two layers. Place the stacks 25 inches apart in the front and 11 inches apart in the rear.
	1	36	12	Honeycomb	Place honeycomb over the rear of the base stacks to form a bridge. Place the honeycomb so that the rear edge of the bridge is aligned with the rear outside corners of the base stacks.
	1	48	12	Honeycomb	Place honeycomb over the front of the base stacks to form a bridge. Place the honeycomb so that the front edge of the bridge is aligned with the front outside corners of the base stacks.
	14	12	32	Honeycomb	Form two stacks of seven layers each. Place each stack on top of the bridge and align it with each base stack.

Figure 11. Stack 3 Prepared

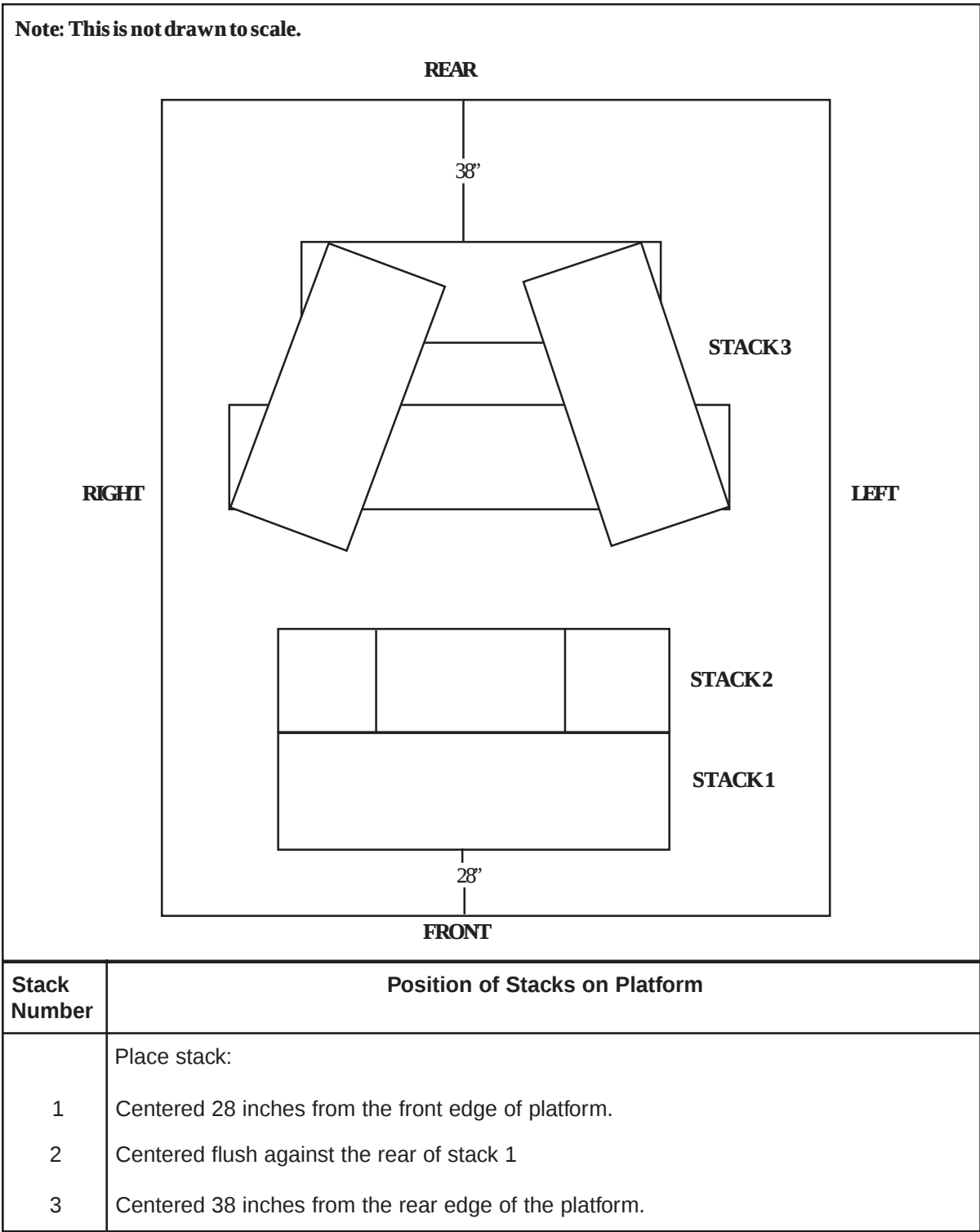


Figure 12. Overhead View of Honeycomb Stacks Positioned on Platform

PREPARING THE TRAILER

5. Prepare the trailer as shown in Figures 13 and 14. Remove the tarpaulin, bows, and side racks according to TM 9-2330-202-14&P.

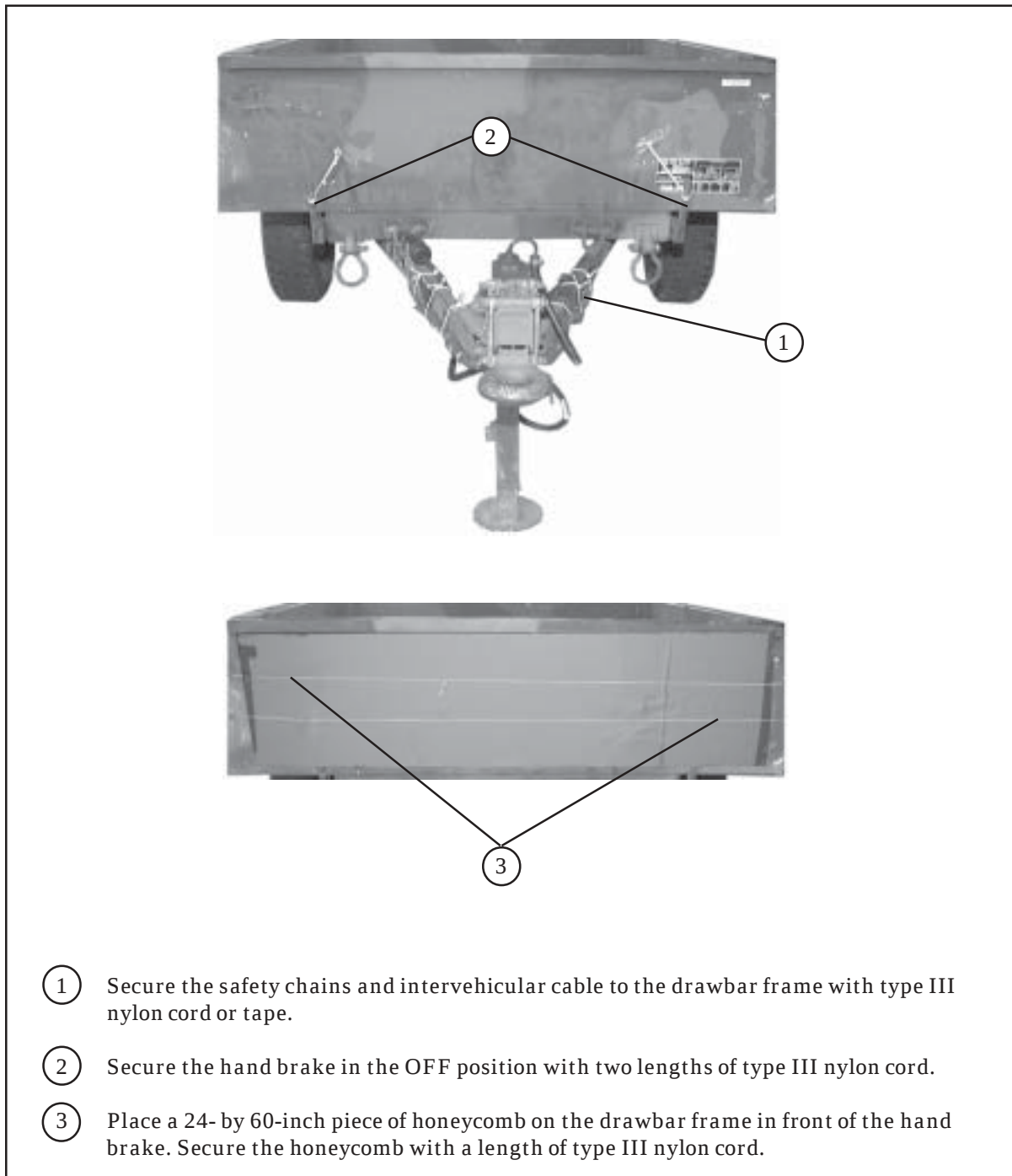
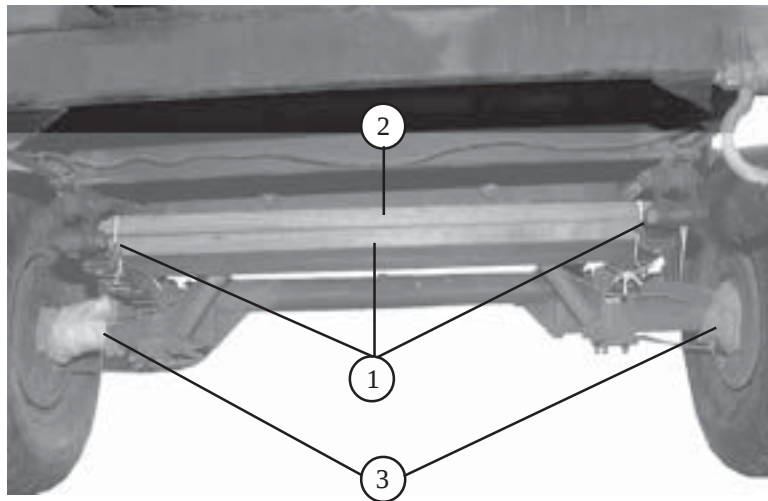


Figure 13. Front of Trailer Prepared



- ① Lay a piece of 2-by 7-by 46-inch lumber on top of the leaf springs and the frame.
- ② Place a piece of 2-by 12-by 46-inch lumber on top and centered on the 2-by 7-by 46-inch piece of lumber. Secure them with type III nylon cord.
- ③ Pad axles with cellulose wadding.
- ④ Tie the rear leg up to the frame with a length of type III nylon cord (not shown).

Figure 14. Rear of Trailer Prepared

STOWING ACCOMPANYING LOAD AND TRAILER COMPONENTS IN TRAILER

6. Stow the accompanying load of 12 ammunition boxes in the trailer as shown in Figures 15 and 16. Stow the trailer components as shown in Figure 17.

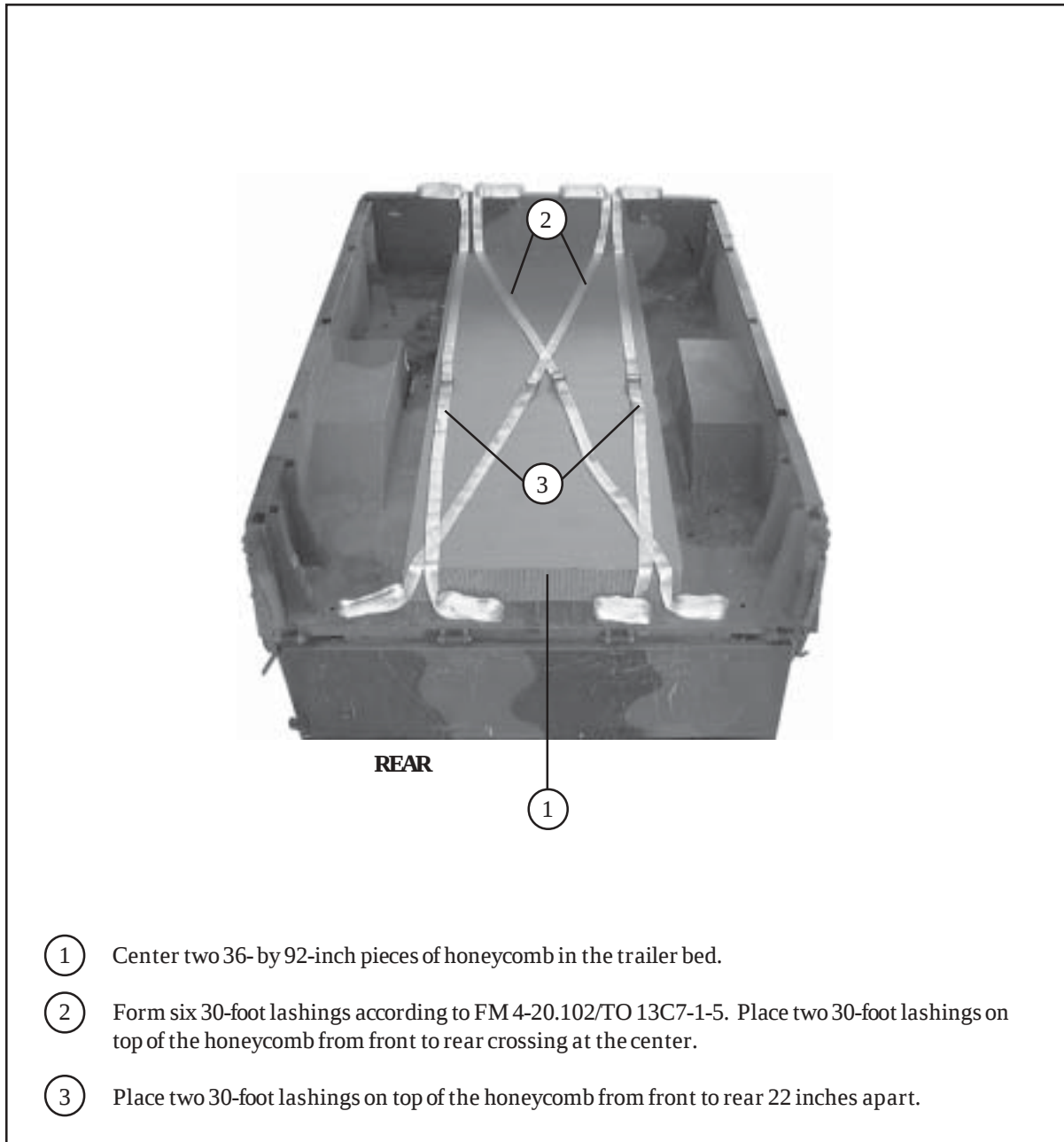
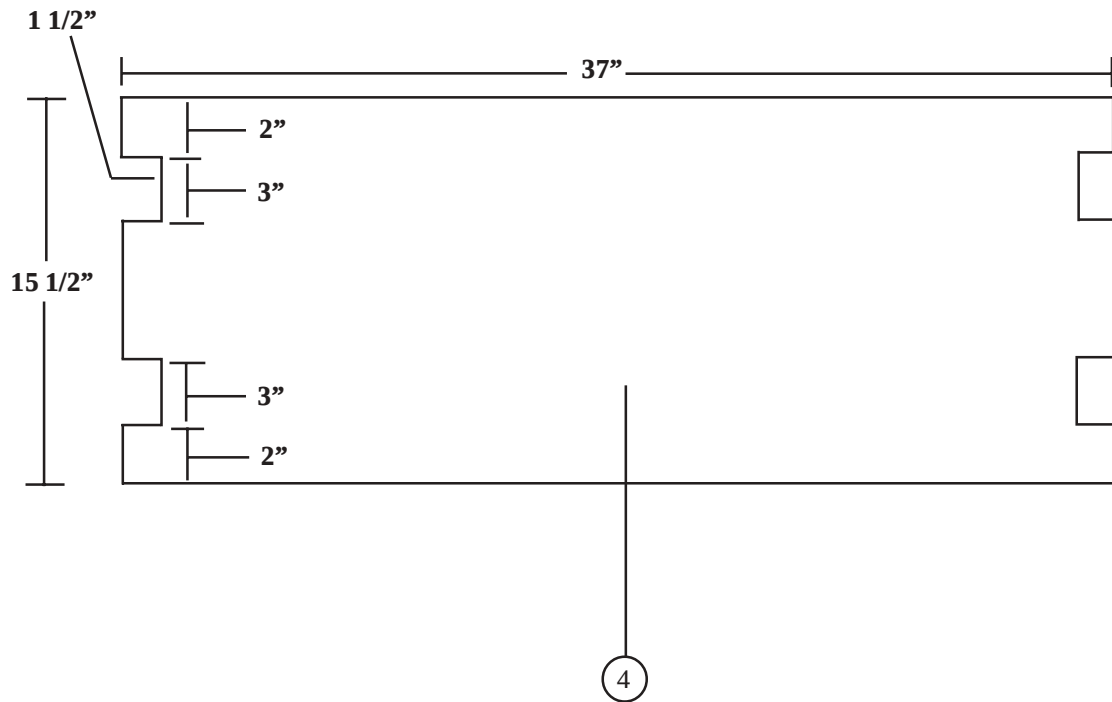


Figure 15. Honeycomb, Lashings, and Endboards Positioned in the Trailer

Note: This drawing is not drawn to scale.



- ④ Cut two endboards as shown above using 3/4-inch piece of plywood.

Figure 15. Honeycomb, Lashings, and Endboards Positioned in the Trailer (continued)

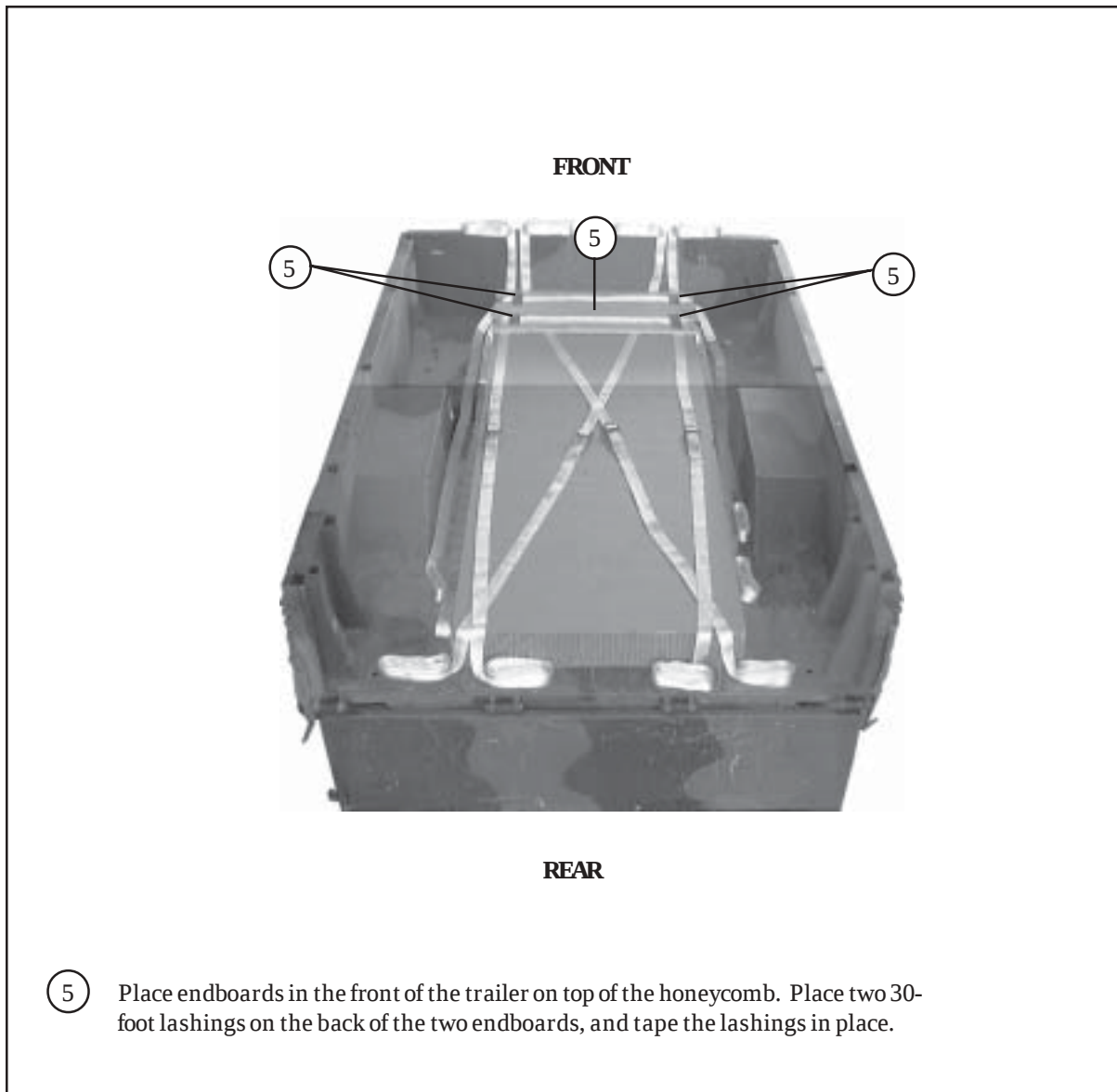
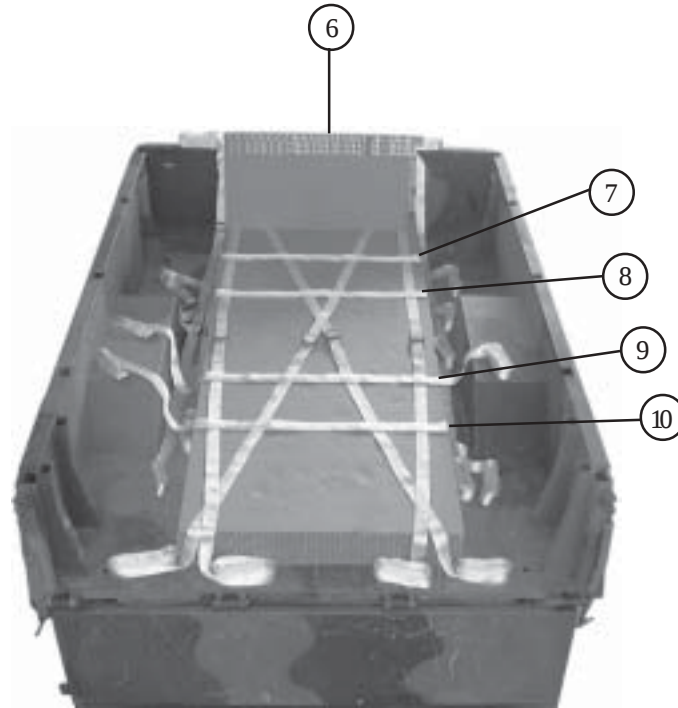
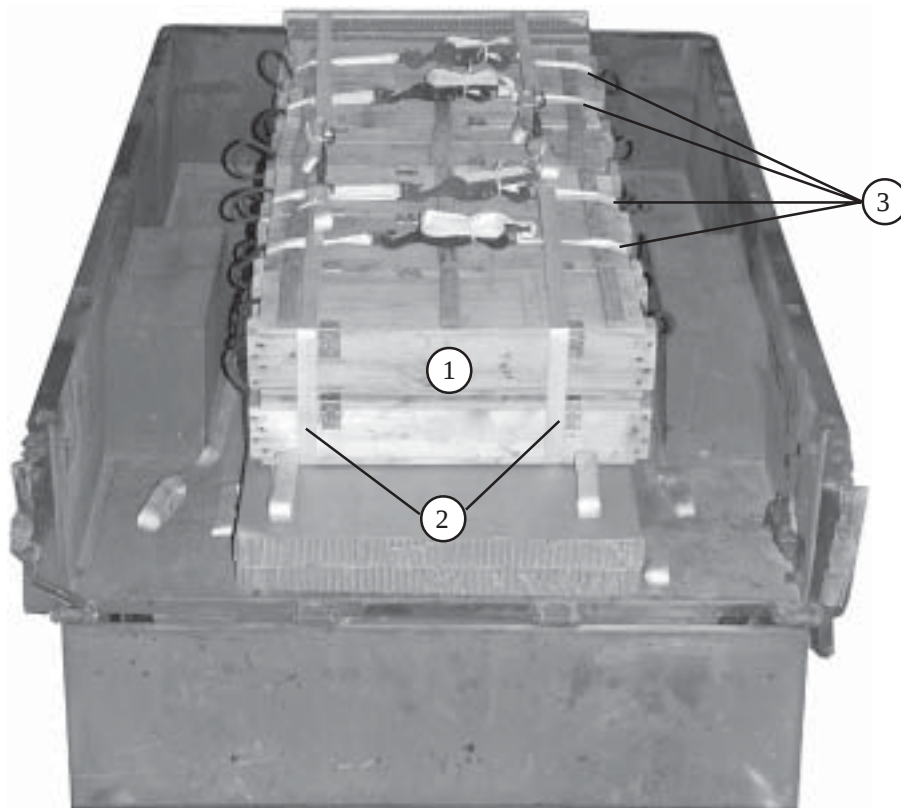


Figure 15. Honeycomb, Lashings, and Endboards Positioned in the Trailer (continued)

**REAR**

- ⑥ Place the endboards against the front of the trailer bed. Cut and position three 15-by 36-inch pieces of honeycomb against the endboard.
- ⑦ Place one 15-foot lashing on the top of the honeycomb from left to right 16 inches from the front of the trailer.
- ⑧ Place one 15-foot lashing on the top of the honeycomb from left to right 27 inches from the front of the trailer.
- ⑨ Place one 15-foot lashing on the top of the honeycomb from left to right 57 1/2 inches from the front of the trailer.
- ⑩ Place one 15-foot lashing on the top of the honeycomb from left to right 70 inches from the front of the trailer.

Figure 15. Honeycomb, Lashings, and Endboards Positioned in the Trailer (continued)

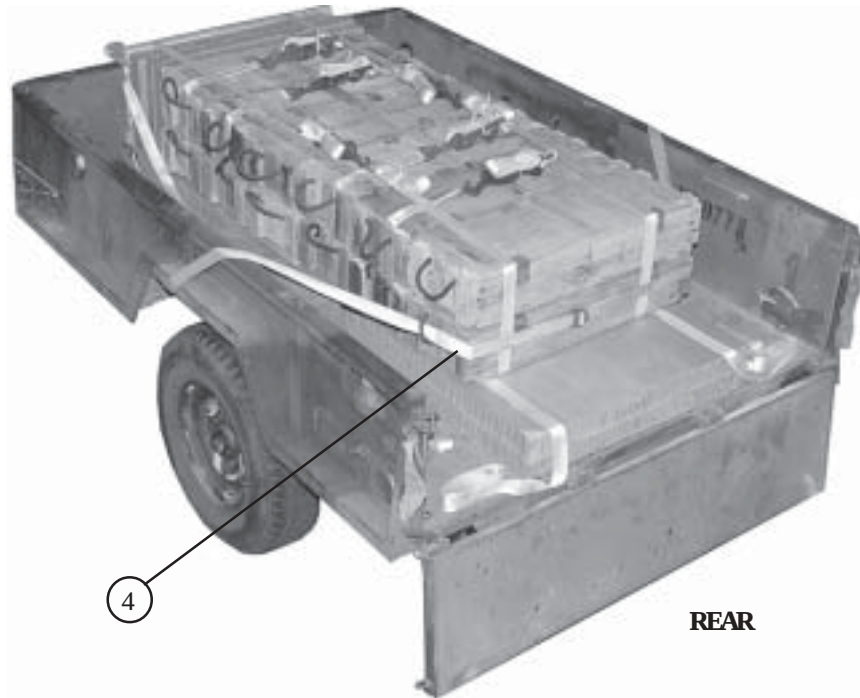


REAR

- ① Place 12 ammunition boxes in two layers of six each on top of the honeycomb. Place them flush against the three pieces of honeycomb.
- ② Secure the boxes in place with the two pre-positioned lashings running front to rear.
- ③ Secure the boxes in place with the four pre-positioned lashings running left to right.

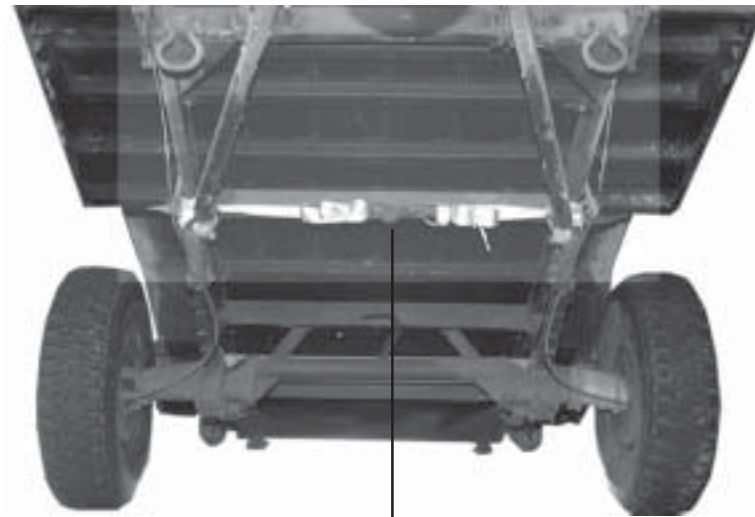
Note: The lashings may need to be adjusted slightly after the ammunition boxes are set in place.

Figure 16. Ammunition Boxes Lashed and Secured in the Trailer



- ④ Form a 30-foot lashing according to FM 4-20.102/TO 13C7-1-5. Run the lashing across the rear bottom box. Pass each free end through the carrying handle of the rear bottom box and over the side panel of the trailer, in front of the wheel well.

Figure 16. Ammunition Boxes Lashed and Secured in the Trailer (continued)

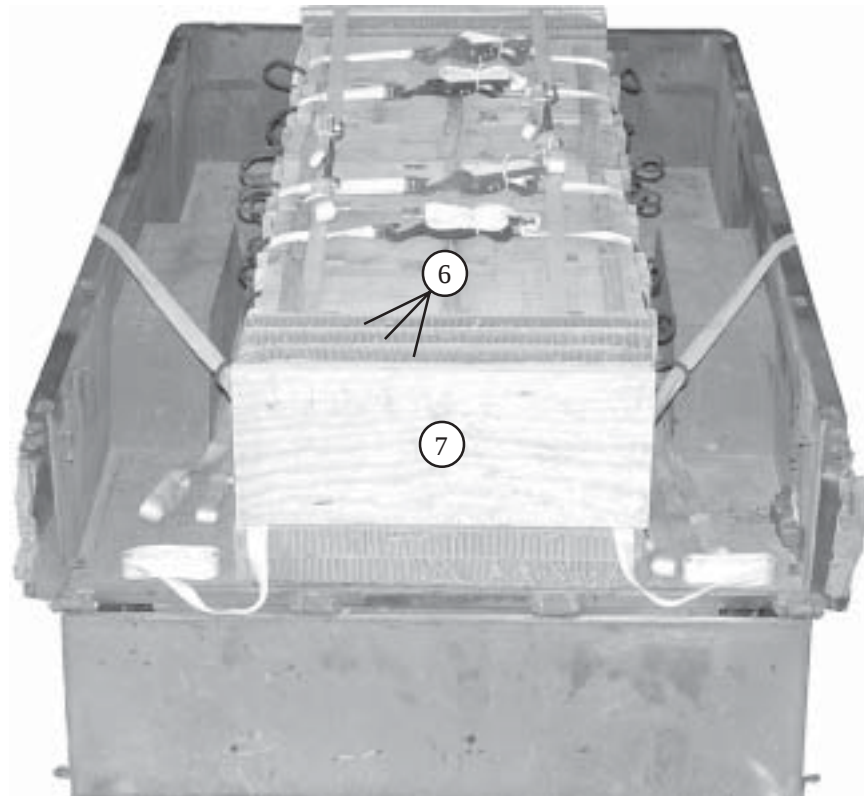


5

FRONT

- 5 Secure the lashing in front of the second cross member of the trailer with two D-rings and a load binder.

Figure 16. Ammunition Boxes Lashed and Secured in the Trailer (continued)



REAR

- ⑥ Place three 15-by 36-inch pieces of honeycomb flush against the rear ammunition boxes.
- ⑦ Cut and place two 3/4-by 15-by 36-inch pieces of plywood flush against the honeycomb.

Figure 16. Ammunition Boxes Lashed and Secured in the Trailer (continued)

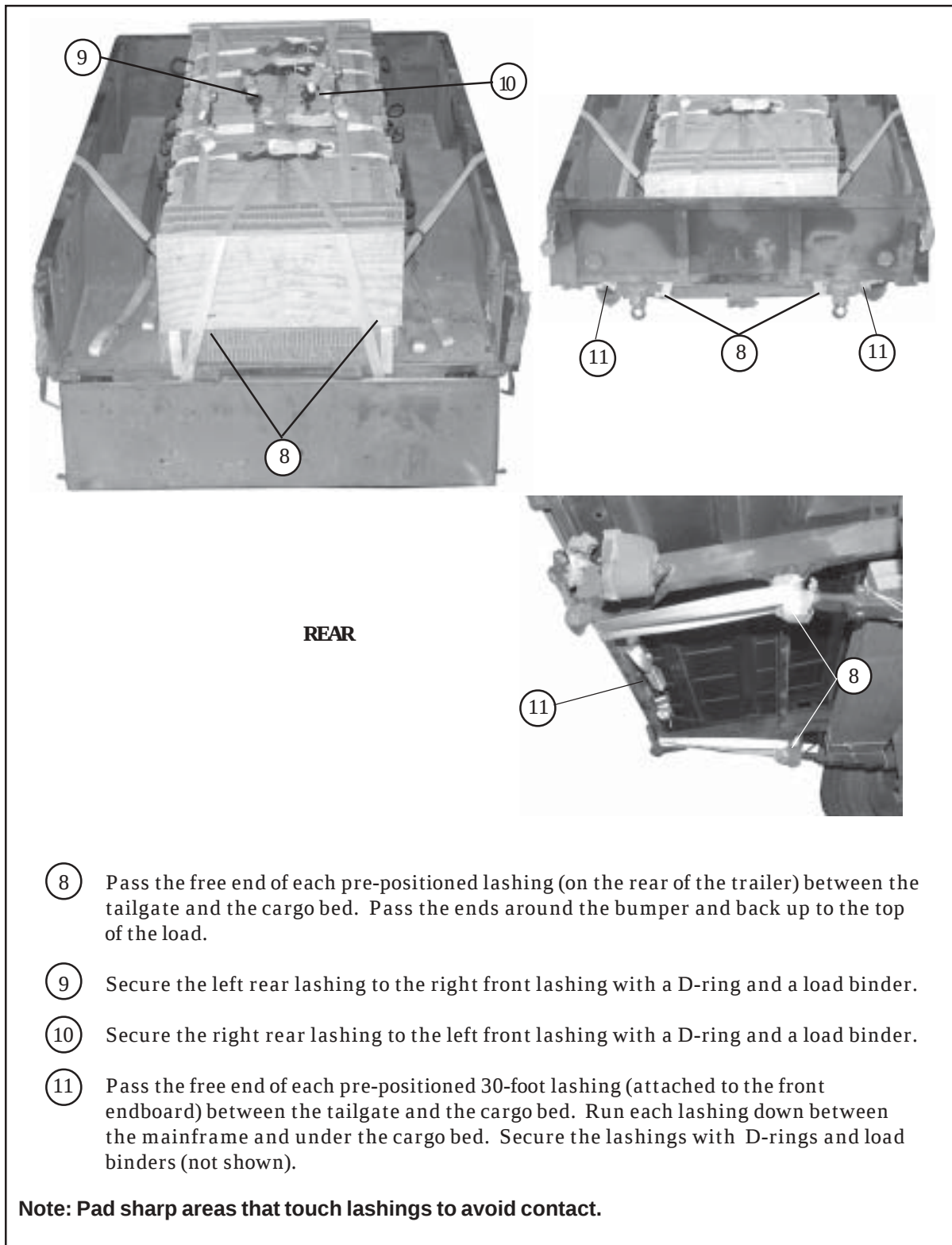


Figure 16. Ammunition Boxes Lashed and Secured in the Trailer (continued)

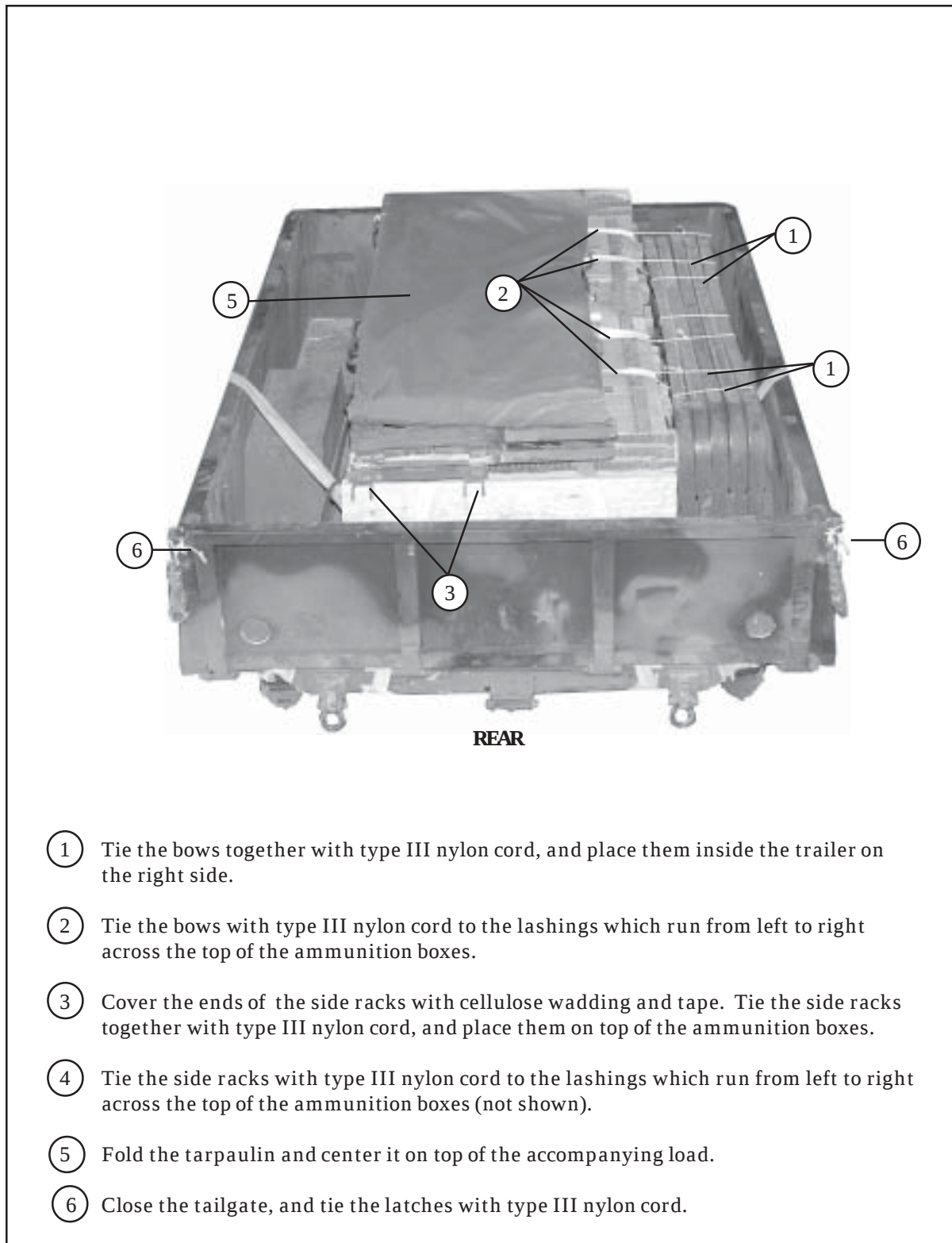
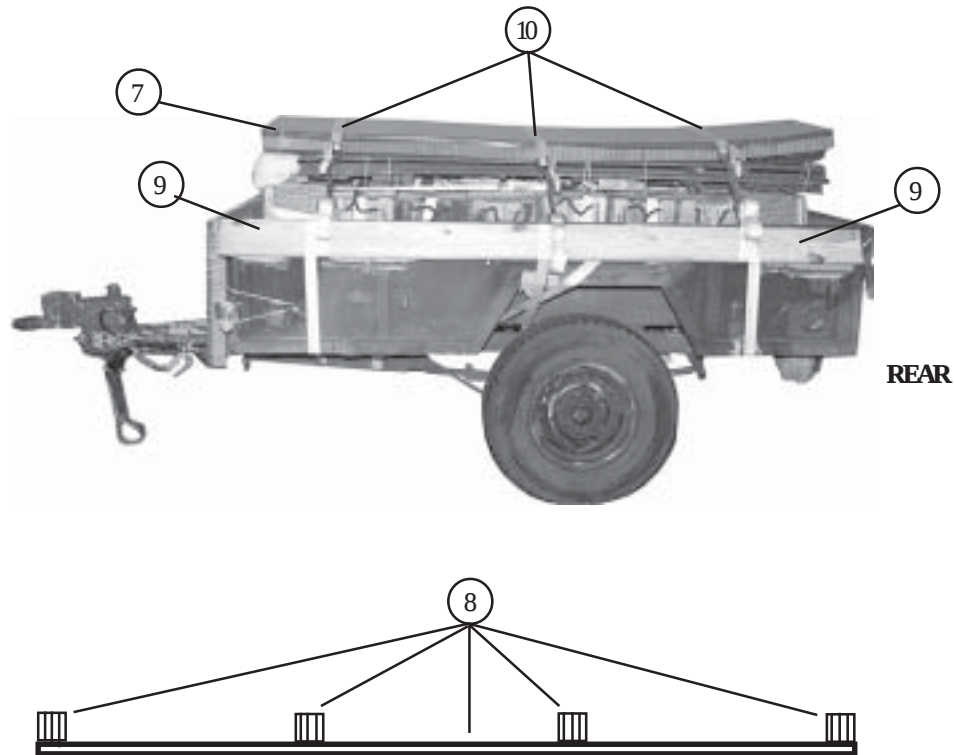


Figure 17. Trailer Components Stowed



- ⑦ Place a 36-by 96-inch piece of honeycomb on top of the tarpaulin. Tape the edges of the honeycomb where the lashings will touch.
- ⑧ Cut two 2-by 6-by 96-inch pieces of lumber to serve as side boards. Cut eight 6-by 6-inch pieces of honeycomb. Glue four pieces of the honeycomb to each side board.
- ⑨ Tie the side boards to the trailer with type III nylon cord.
- ⑩ Form three 30-foot lashings according to FM 4-20.102/TO 13C7-1-5. Secure the load and trailer components by passing each lashing under the trailer body and looped around the the side boards. Secure the lashing ends together on the left side of the trailer between the honeycomb and side board.

Figure 17. Trailer Components Stowed (Continued)

SECURING TRAILER SUPPORT STAND AND INSTALLING LIFTING SLINGS

7. Raise and secure the trailer support stand as shown in Figure 18. Use three 12-foot (2-loop), type XXVI nylon webbing slings; one 3-foot (2-loop), type XXVI nylon webbing sling; and three medium suspension clevises to lift the trailer.

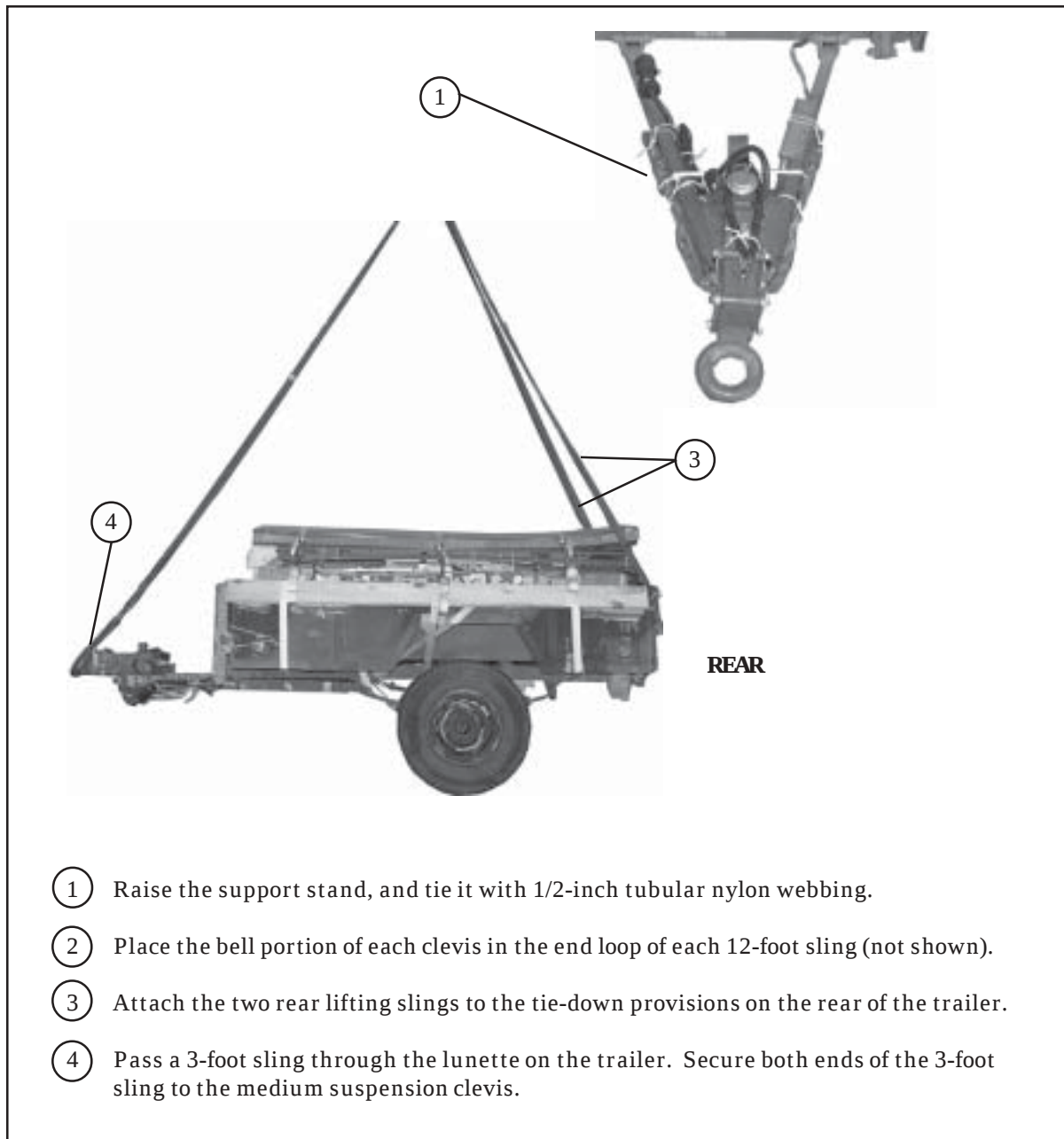


Figure 18. Trailer Support Secured and Lifting Slings Installed

POSITIONING TRAILER

8. Position the trailer on the honeycomb stacks according to Figure 19.

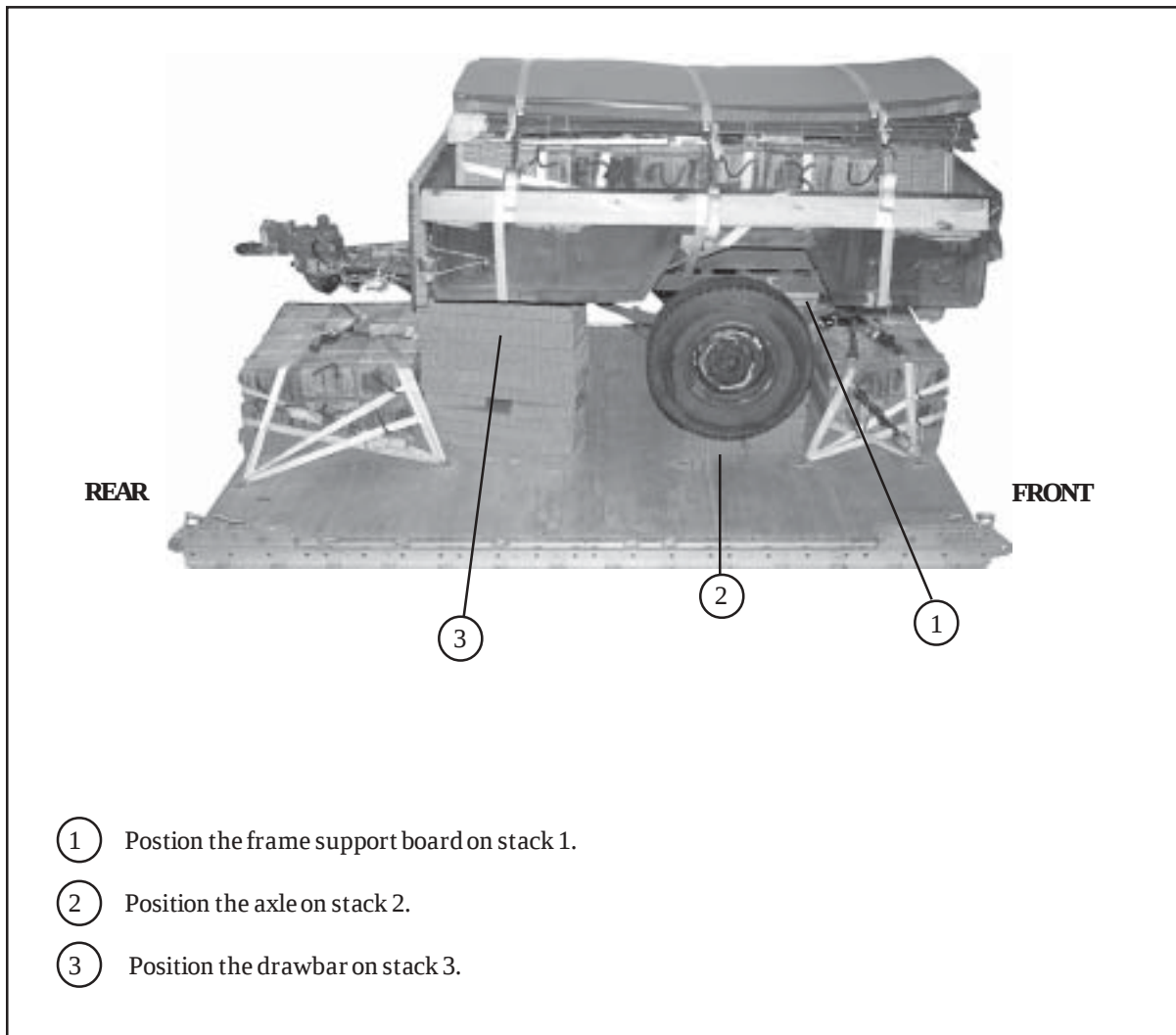


Figure 19. Trailer Positioned

LASHING TRAILER

9. Lash the trailer to the platform according to FM 4-20.102/TO 13C7-1-5 and as shown Figures 20 and 21.

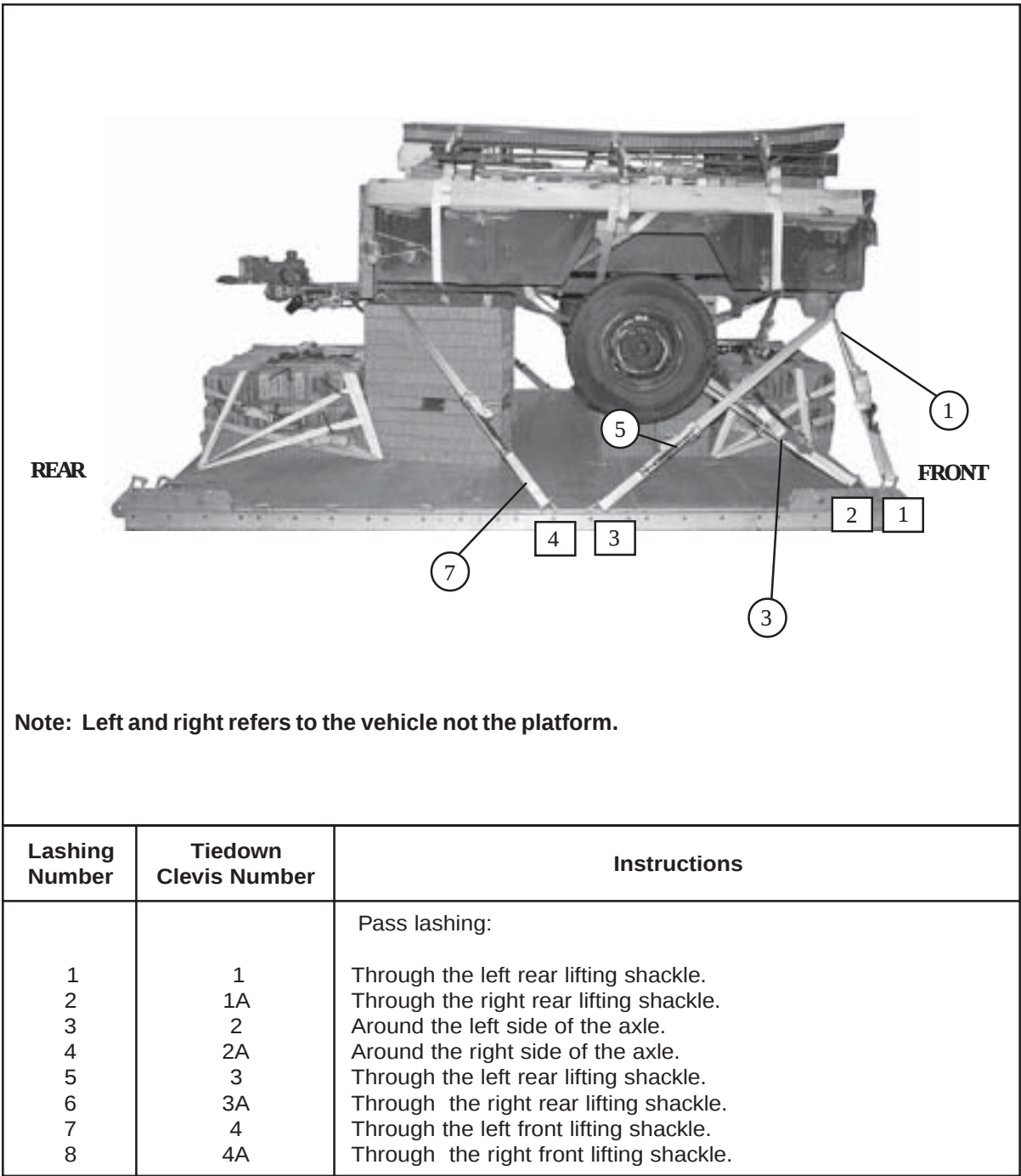


Figure 20. Lashings 1 Through 8 Installed

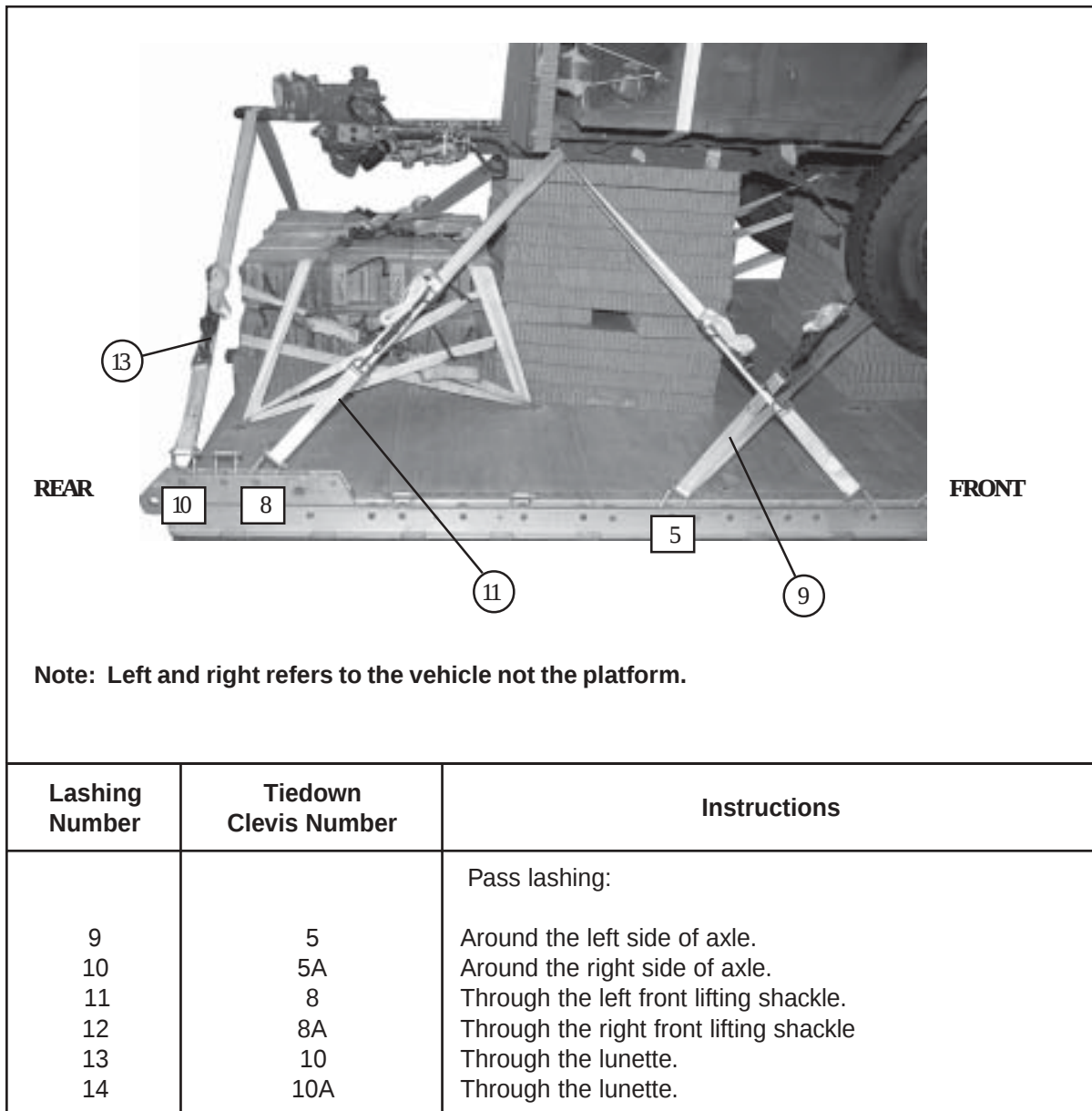


Figure 21. Lashings 9 Through 14 Installed

BUILDING AND INSTALLING PARACHUTE STOWAGE PLATFORM AND WOODEN SUPPORT

10. Build the parachute stowage platform as shown in Figure 22. Install the parachute stowage platform using four 15-foot tie-down assemblies as shown in Figure 23.

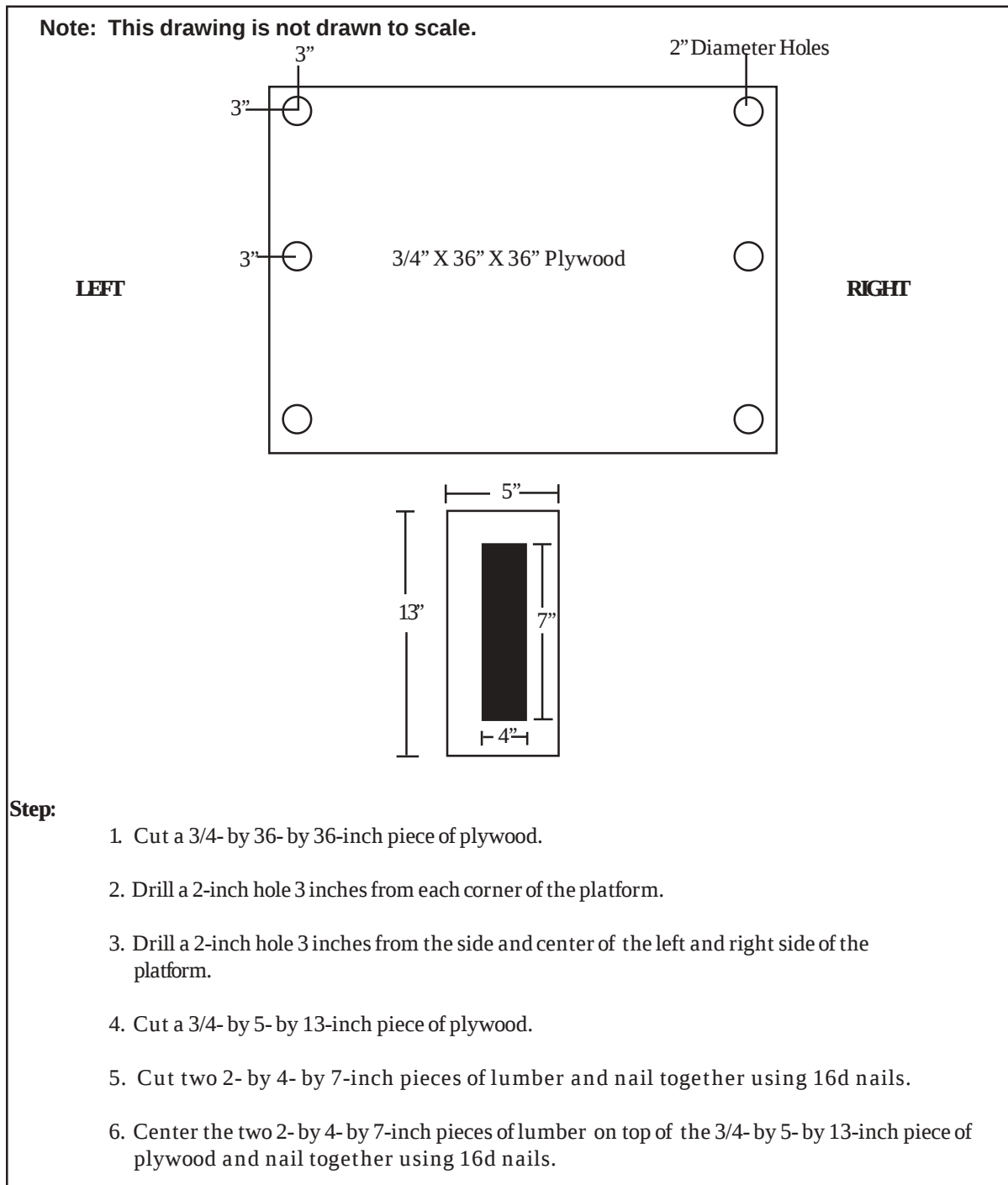
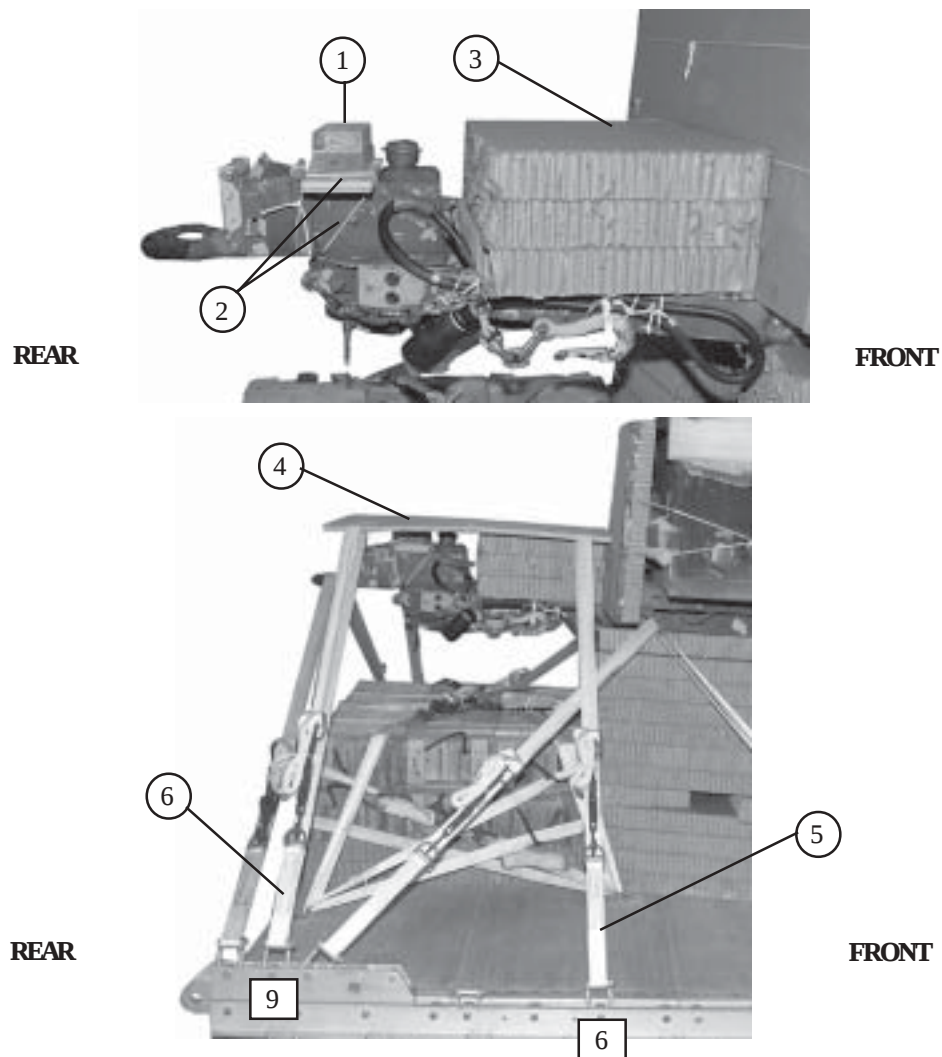


Figure 22. Parachute Stowage Platform and Wooden Support Built



- ① Place the wooden support on top of the brake housing.
- ② Secure the wooden support down to the brake housing with type III nylon cord.
- ③ Cut and position three 17-by 22-inch pieces of honeycomb on top of the drawbar flush against the honeycomb on the front of the trailer.
- ④ Place the parachute stowage platform on top of the honeycomb with the smooth side of plywood facing up.
- ⑤ Run the free end of a 15-foot lashing from clevis 6 through the front hole of parachute stowage platform. Secure with D-ring and a load binder. Repeat for clevis 6A.
- ⑥ Run the free end of a 15-foot lashing from clevis 9 through the rear hole of parachute stowage platform. Secure with D-ring and a load binder. Repeat for clevis 9A.

Figure 23. Parachute Stowage Platform and Wooden Support Installed

INSTALLING AND SAFETY TIEING SUSPENSION SLINGS

11. Install and safety tie four 16-foot (2-loop), type XXVI nylon webbing slings as shown in Figure 24.

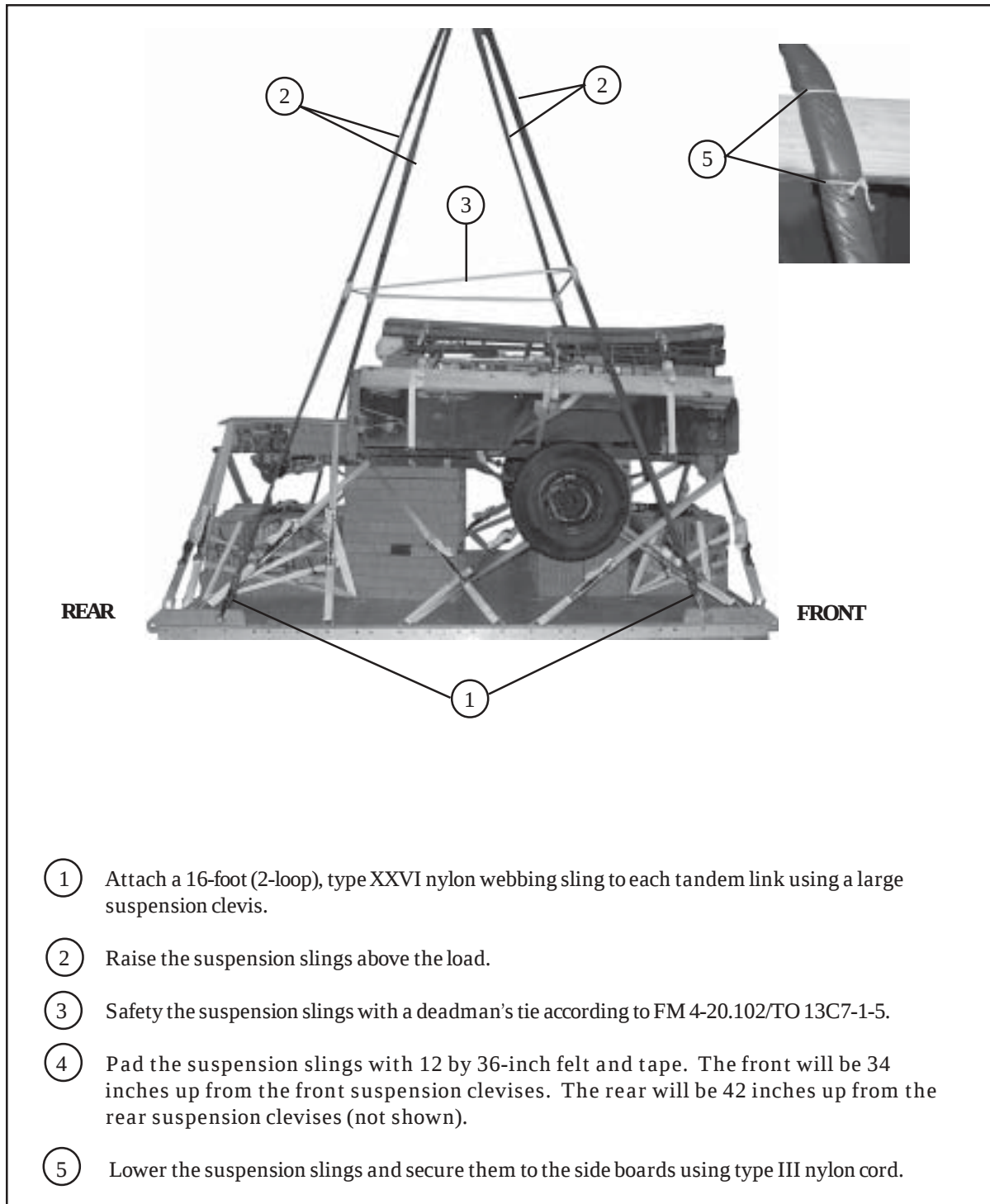


Figure 24. Suspension Slings Installed and Safety Tied

STOWING CARGO PARACHUTES

12. Stow and restrain two G-11B cargo parachutes on top of the stowage platform as shown in Figure 25.

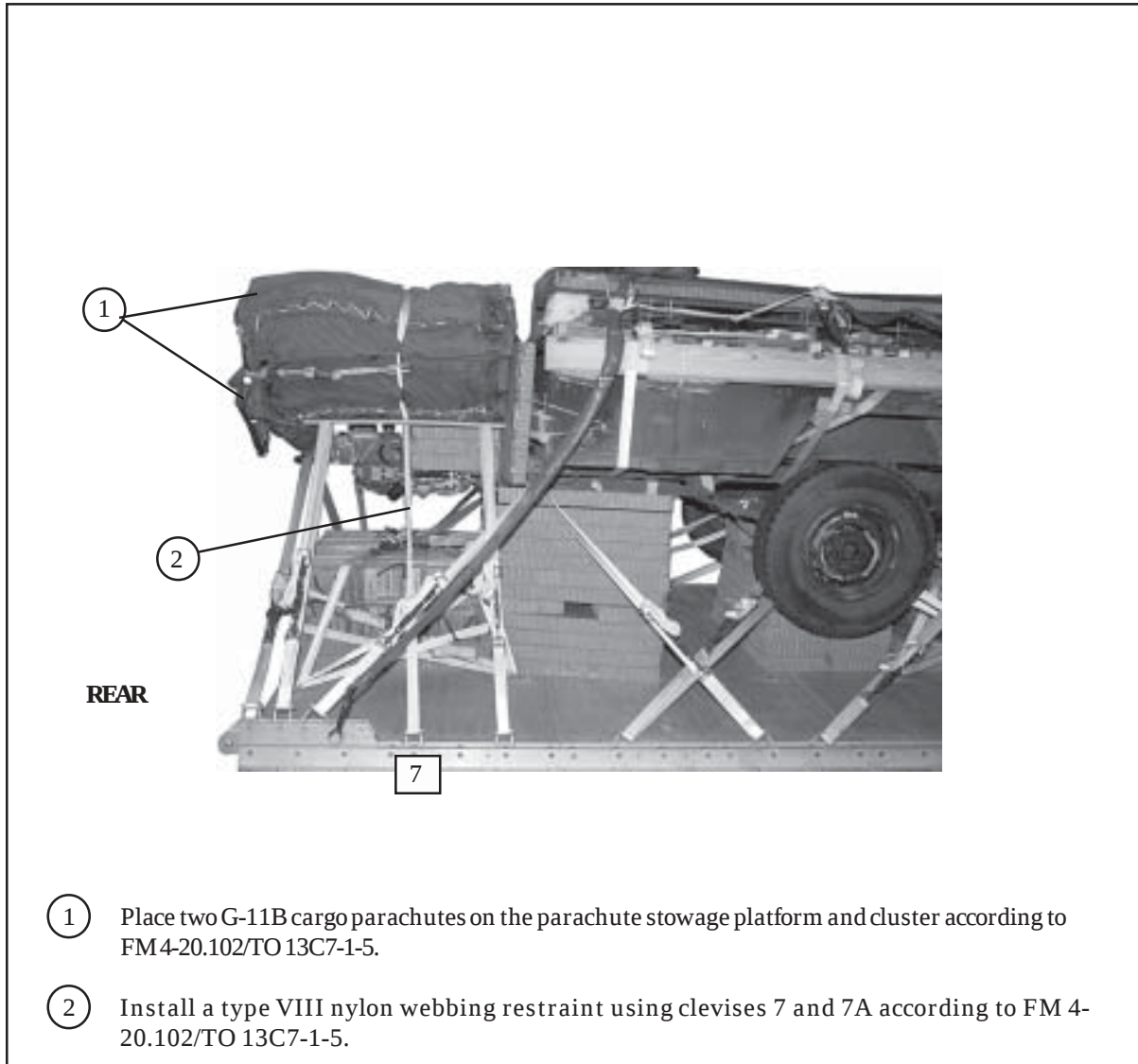


Figure 25. Cargo Parachutes Stowed

PREPARING AND INSTALLING EXTRACTION SYSTEM

13. Prepare and install the Extraction Force Transfer Coupling (EFTC) System according to FM 4-20.102/TO 13C7-1-5 and as shown in Figure 26.

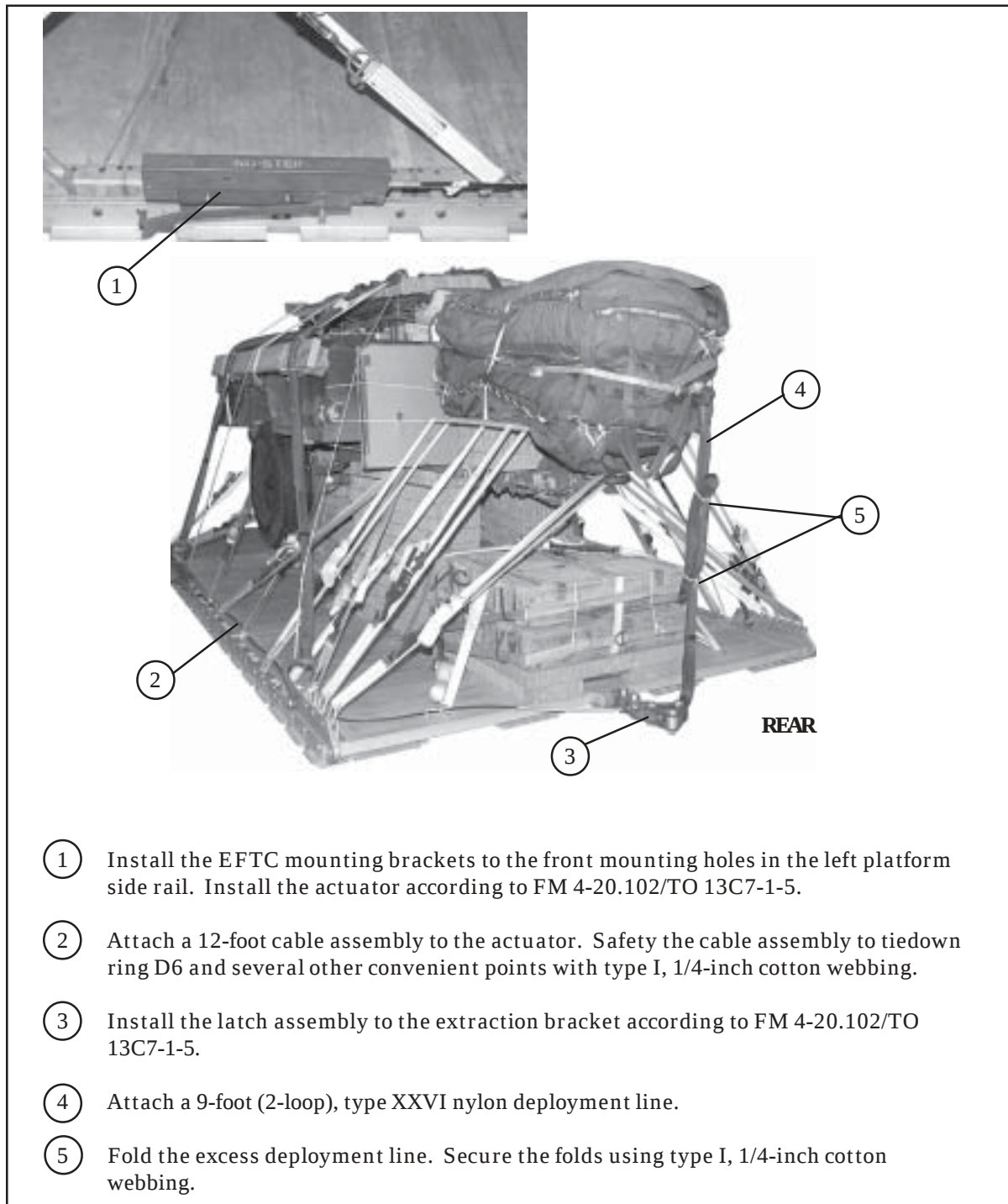
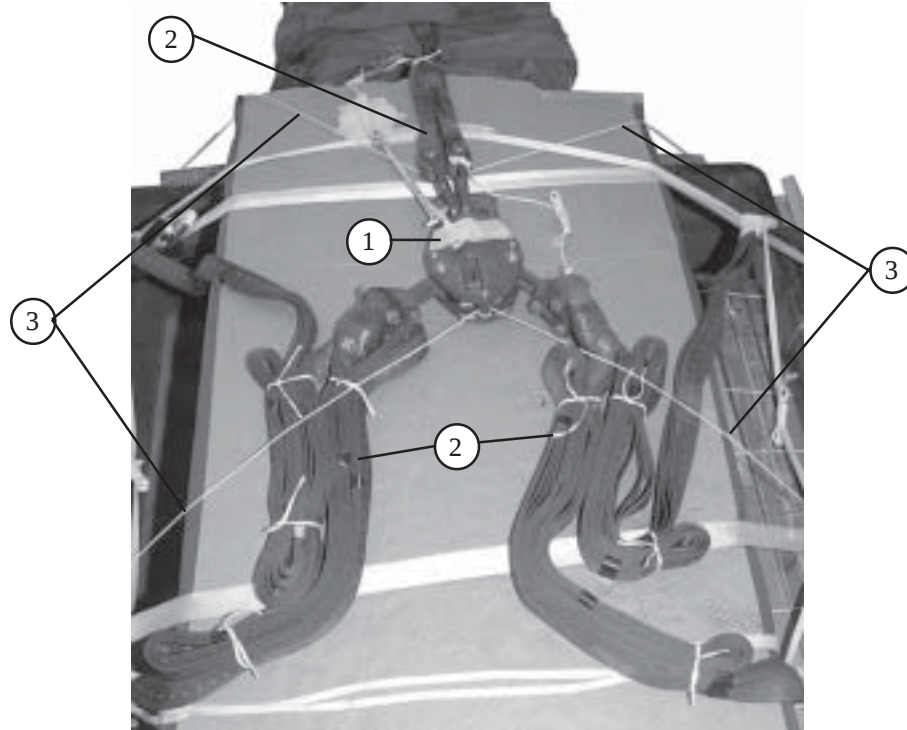


Figure 26. Extraction System Installed

INSTALLING PARACHUTE RELEASE SYSTEM

14. Prepare, install and safety an M-1 cargo parachute release system according to FM 4-20.102/TO 13C7-1-5 and as shown in Figure 27.



- ① Place the release on top of the accompanying load.
- ② Attach the riser extensions and suspension slings to the release according to FM 4-20.102/TO 13C7-1-5.
- ③ Secure the release with type III nylon cord to convenient points on the load or platform.

Figure 27. Parachute Release System Installed

INSTALLING PROVISIONS FOR EMERGENCY RESTRAINTS

15. Install the provisions for emergency restraints on the load according to FM 4-20.102/TO 13C7-1-5.

PLACING EXTRACTION PARACHUTE

16. Select the extraction parachute and extraction line needed using the extraction line requirements table in FM 4-20.102/TO 13C7-1-5. Rig the extraction line in an extraction line bag according to TM 10-1670-286-20/TO 13C5-2-41. Place the extraction parachute and extraction line on the load for installation in the aircraft.

MARKING RIGGED LOAD

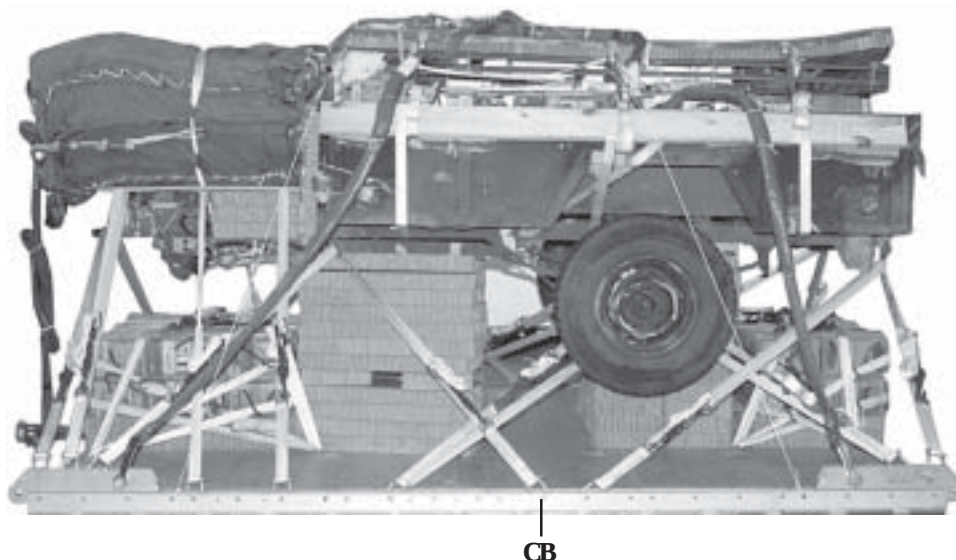
17. Mark the rigged load according to FM 4-20.102/TO 13C7-1-5 and as shown in Figure 28. A Shipper's Declaration for Dangerous Goods is required.

EQUIPMENT REQUIRED

18. The equipment required to rig this load is listed in Table 1-1.

CAUTION

Make the final rigger inspection required by FM 4-20.102/
TO 13C7-1-5 before the load leaves the rigging site.

**RIGGEDLOAD**

Weight:	Load shown	5,920 pounds
	Maximum weight	8,000 pounds
Height		72 inches
Width		108 inches
Length		163 inches
Overhang: Front		0 inches
	Rear (EFTC)	19 inches
CB (from front edge of platform)		70 inches

Figure 28. M101A2, 3/4-ton Trailer and Accompanying Ammunition Load Rigged on a Type V Platform for Low-Velocity Airdrop

Table 1-1. Equipment Required for Rigging the M101, M101A1 or M101A2, 3/4-ton Cargo Trailer with Accompanying Load on a Type V Platform for Low-Velocity Airdrop

National Stock Number	Item	Quantity
8040-00-273-8713	Adhesive paste, 1-gal	As required
4020-00-240-2146	Cord, nylon, type III, 550-lb	As required
4030-00-090-5354	Clevis, large	5
4030-00-678-8562	Clevis, medium	4
	Link assembly:	
	Two-point, 3 3/4-in (1 for DES)	2
5306-00-435-8994	Bolt, 1-in diam, 4-in long (2 added for DES)	4
5310-00-232-5165	Nut, 1-in, hexagonal (2 added for DES)	4
1670-00-003-1953	Plate, side, 3 3/4-in (2 added for DES)	4
5365-00-007-3414	Spacer, large (2 added for DES)	4
	Lumber:	
5510-00-220-6146	2- by 4-in	As required
5510-00-220-6148	2- by 6-in	As required
5510-00-220-6250	2- by 12-in	As required
5530-00-618-8073	Plywood, 3/4-in	2 sheets
1670-00-753-3928	Pad, energy dissipating, honeycomb, 3- by 36- by 96-in	20 sheets
	Parachute:	
	Cargo:	
1670-01-016-7841	G-11B	2
	Cargo extraction:	
1670-01-063-3715	15-foot	1
	Platform, airdrop type V, 12-foot:	
1670-01-162-2370	Rail	2
1670-01-162-2372	Clevis assembly	20
1670-01-353-8425	Bracket assembly, coupling	1
1670-01-353-8424	Extraction bracket assembly	1
1670-01-162-2381	Tandem link assembly (Multipurpose)	4
1670-01-097-8816	Release, cargo parachute, M-1	1

Table 1-1. Equipment Required for Rigging the M101, M101A1 or M101A2, 3/4-ton Cargo Trailer with Accompanying Load on a Type V Platform for Low-Velocity Airdrop (continued)

National Stock Number	Item	Quantity
1670-01-063-7761	Sling, cargo airdrop For suspension: 16-ft (2-loop), type XXVI nylon webbing	4
1670-01-062-6304	For deployment: 9-ft (2-loop), type XXVI nylon webbing	1
1670-01-062-6302	For riser extension: 20-ft (2-loop), type XXVI nylon webbing	2
1670-01-062-6301	For lifting: 3-ft (2-loop), type XXVI nylon webbing	1
1670-01-062-6303	12-ft (2-loop), type XXVI nylon webbing	3
8135-00-664-6958	Cushioning material, packaging, cellulose wadding	As required
1670-00-003-4391	Knife, miniature, cutter (for DES)	1
1670-01-183-2678	Leaf, extraction line (line bag)(add 2 for DES)	2
1670-01-064-4452	Line, drogue (for DES) 60-ft (1-loop), type XXVI	1
1670-01-064-4452	Line, extraction: 60-ft (1-loop), type XXVI	1
1670-01-107-7652	160-ft (1-loop), type XXVI	1
1670-01-483-8259	Link, tow release mechanism (H-Block) C-17 aircraft	1
1670-00-040-8219	Strap, parachute release, multicut	2
7510-00-266-5016	Tape, adhesive, 2-in	As required
1670-00-937-0271	Tie-down assembly, 15-ft	55
8305-00-268-2411	Webbing: Cotton, 1/4-in, type I	As required
8305-00-082-5752	Nylon: Tubular, 1/2-in	As required
8305-00-263-3591	Type VIII	As required
5315-00-753-3885	Nail 16d	As required

Glossary

AFB	Air Force Base
AFMAN	Air Force Joint Manual
AFTO	Air Force Technical Order
AFSOC	Air Force Special Operations Command
ALC	Airlift Logistics Center
AMC	Air Mobility Command
CB	center of balance
DA	Department of Army
DC	District of Columbia
DES	Drogue Extraction System
dam	diameter
EFIC	extraction force transfer coupling
FM	field manual
ft	foot/feet
HQ	headquarters
in	inch
lb	pound
No	number

TRADOC	US Army Training and Doctrine Command
USA	United States of America
TM	technical manual
TO	technical order

References

AFR 55-40/AR 59-4	Joint Airdrop Inspection Records, Malfunction Investigations and Activity Reporting. 1 May 1998.
*AFMAN(I) 24-204/ TM 38-250	Preparing Hazardous Materials for Military Air Shipments. December 2001.
**FM 4-20.102/NAVSEA SS400-AB-MMO-010/ TO 13C7-1-5	Airdrop of Supplies and Equipment: Rigging Airdrop Platforms. 22 August 2001.
TM 9-2330-202-14 & P	Operator's Organizational, Direct Support, and General Support Maintenance Manual (Including Repair Parts and Special Tools Lists) for Trailer, Cargo: 3/4-Ton, 2-Wheel M101, and M101A1; Chassis, Trailer: 3/4-Ton, 2-Wheel M116 and M116A1
TM 10-1670-268-20&P/ TO 13C7-52-22	Organizational Maintenance Manual with Repair Parts and Special Tools List: Type V Airdrop Platform. 1 June 1986.
TM 10-1670-278-23&P/ TO 13C5-26-2/NAVAIR 13- 1-27	Unit and Intermediate Direct Support (DS) Maintenance Manual (Including Repair Parts and Special Tools List) for Parachute, Cargo Type: 15-ft Diam, Cargo Extraction Parachute. 6 November 1989.
TM 10-1670-280-23&P/TO 13C5-31-2/NAVAIR 13-1-31	Unit and Intermediate Direct Support (DS) Maintenance Manual (Including Repair Parts and Special Tools List) for Parachute, Cargo Type: 100-ft Diam, Model G-11A, Model G-11B, and Model G-11C. 5 August 1991.
TM 10-1670-286-20/ TO 13C5-2-41	Unit Maintenance Manual for Sling/Extraction Line Panel (Including Stowing Procedures). 15 March 2001.
TM 10-1670-296-20&P/ TO 13C7-49-2	Unit Maintenance Manual Including Repair Parts and Special Tools List for Ancillary Equipment for Low-Velocity Airdrop Systems (LVADS). 15 September 1995.
FM 10-500-53 TO 13C7-18-41	Airdrop of Supplies and Equipment: Rigging Ammunition. 24 July 2000

***AFMAN(I) 24-204/TM 38-250 has superseded AFJMAN 24-204/TM 38-250 (25 November 1994).**

**** FM 4-20.102/NAVSEA SS400-AB-MMO-010/TO 13C7-1-5 has superseded FM 10-500-2/TO 13C7-1-5 (1 November 1990).**

AFTO Form 22 Technical Order Publication Improvement Report

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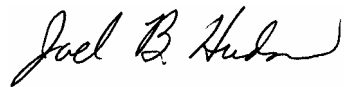
***Shipper's Declaration
for Dangerous Goods** Locally Procured Form.

***Shipper's Declaration for Dangerous Goods has superseded DD Form 1387-2
(February 1982).**

By Order of the Secretary of the Army and the Air Force:

JOHN M. KEANE
General, United States Army
Acting Chief of Staff

Official:



JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0321710

LESTER L. LYLES
General, USAF
Commander, AFMC

JOHN P. JUMPER
General, USAF
Chief of Staff

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